

**CHAPTER**

**27**

**FLIGHT CONTROLS**



CHAPTER 27  
FLIGHT CONTROLS

CH-SC-SU	Schem	Page	Sheet	Date	CH-SC-SU	Schem	Page	Sheet	Date
27-EFFECTIVE PAGES					27-11-11 (cont.)				
		1 thru 5		Aug 10/2009			103		Feb 09/2009
		6		BLANK	27-18-11				
27-CONTENTS							101		Feb 09/2009
		1		Feb 09/2009	27-20-01				
		2		May 11/2009			101	1	Jul 17/2007
		3		May 11/2009				2	Jul 17/2007
		4		May 11/2009			102	1	Feb 09/2009
		5		May 11/2009				2	Feb 09/2009
		6		May 11/2009	27-21-11				
		7		May 11/2009			101		Jul 17/2007
		8		May 11/2009			102		Jan 14/2008
27-ALPHABETICAL INDEX							103		Feb 09/2009
		1		Jan 18/2007	27-23-11				
		2		Jan 18/2007			101		Jul 17/2007
27-00-00							101.1		Aug 13/2008
		101	1	Feb 09/2009			102		Mar 31/2005
			2	Feb 09/2009			102.1		Aug 13/2008
			3	Feb 09/2009			103		May 11/2009
27-10-01					27-23-14				
		101	1	Feb 09/2009			101		Mar 31/2005
			2	Feb 09/2009			102		Feb 09/2009
27-11-11					27-24-11				
		101		Jul 17/2007			101		Feb 09/2009
		102		Jan 14/2008					

A = Added, R = Revised, D = Deleted, O = Overflow

**27-EFFECTIVE PAGES**

Page 1  
Aug 10/2009

D280A203



CHAPTER 27  
FLIGHT CONTROLS

CH-SC-SU	Schem	Page	Sheet	Date	CH-SC-SU	Schem	Page	Sheet	Date
27-25-11		101		Jul 17/2007	27-32-12		101		Jul 17/2007
		101.1		Aug 13/2008			102		Feb 09/2009
		102		Jul 26/2006	27-32-21				
		102.1		Aug 13/2008			101		Jul 17/2007
		103		Feb 09/2009			101.1		May 13/2008
27-28-11							101.2		May 13/2008
		101		Mar 31/2005			102		Feb 09/2009
		102		Feb 09/2009			103		Jan 14/2008
27-30-01					27-32-22				
		101		Feb 09/2009			101		Jul 17/2007
27-31-11							102		Feb 09/2009
		101.1		Mar 31/2005	27-32-31				
		102		May 11/2009			101.1		Jan 18/2007
27-31-37							102		Feb 09/2009
		101.1		Mar 31/2005	27-38-11				
		102		May 11/2009			101		Feb 09/2009
27-32-11					27-40-01				
		101		Jul 17/2007			101		Jul 17/2007
		101.1		May 13/2008			102		Feb 09/2009
		101.2		May 13/2008	27-41-11				
		102		Feb 09/2009			101.1	1	Jul 26/2006
		103		Jan 14/2008				2	May 11/2009
							102	1	Jul 17/2007

A = Added, R = Revised, D = Deleted, O = Overflow

**27-EFFECTIVE PAGES**

Page 2  
Aug 10/2009

D280A203



CHAPTER 27  
FLIGHT CONTROLS

CH-SC-SU	Schem	Page	Sheet	Date	CH-SC-SU	Schem	Page	Sheet	Date
27-41-11 (cont.)		102			27-53-21				
			2	May 11/2009			101	1	Feb 09/2009
		103	1	May 11/2009				2	Feb 09/2009
			2	May 11/2009	27-54-11				
		104	1	May 11/2009			101		Aug 13/2008
			2	May 11/2009			102		Feb 09/2009
27-48-11							103		Aug 13/2008
		101		Feb 09/2009	27-60-01				
27-50-01							101	1	Jul 17/2007
		101	1	Jan 14/2008				2	Jul 17/2007
			2	Jan 14/2008			102	1	Feb 09/2009
			3	Jan 14/2008				2	Feb 09/2009
		102	1	Feb 09/2009			103	1	Jan 14/2008
			2	Feb 09/2009				2	Jan 14/2008
			3	Feb 09/2009	27-61-11				
27-51-11							101		Feb 09/2009
		101		Feb 09/2009	27-62-11				
27-52-11							101	1	Feb 09/2009
		101		Feb 09/2009				2	Feb 09/2009
27-53-11							101.1	1	May 13/2008
		101.1		Jul 17/2007				2	May 13/2008
		102		Feb 09/2009			102	1	Feb 09/2009
27-53-12								2	Feb 09/2009
		101		May 11/2009			103.1	1	Feb 09/2009

A = Added, R = Revised, D = Deleted, O = Overflow

**27-EFFECTIVE PAGES**

Page 3  
Aug 10/2009

D280A203



CHAPTER 27  
FLIGHT CONTROLS

CH-SC-SU	Schem	Page	Sheet	Date	CH-SC-SU	Schem	Page	Sheet	Date
27-62-11 (cont.)		103.1			27-62-41 (cont.)				
			2	Feb 09/2009			101.1		May 13/2008
			3	Feb 09/2009			102		May 13/2008
		104	1	Feb 09/2009	27-80-01				
			2	Feb 09/2009			101	1	Feb 09/2009
			3	Feb 09/2009				2	Feb 09/2009
		105	1	Feb 09/2009				3	Feb 09/2009
			2	Feb 09/2009	27-81-11				
			3	Feb 09/2009			101		Feb 09/2009
		106	1	Feb 09/2009			102		Feb 09/2009
			2	Feb 09/2009	27-81-12				
27-62-14							101		Feb 09/2009
		101		Feb 09/2009	27-81-21				
27-62-21							101		Feb 09/2009
		101		Jul 17/2007	27-81-22				
		102		Aug 13/2008			101		Feb 09/2009
		103		Feb 09/2009	27-81-31				
		104		Feb 09/2009			101		Jan 14/2008
		105		May 13/2008			102	1	Feb 09/2009
		106		Aug 13/2008				2	Feb 09/2009
27-62-37					27-81-41				
		101		Feb 09/2009			101		Jan 14/2008
27-62-41							102		Feb 09/2009
		101		Feb 09/2009					

A = Added, R = Revised, D = Deleted, O = Overflow

**27-EFFECTIVE PAGES**

Page 4  
Aug 10/2009

D280A203



CHAPTER 27  
FLIGHT CONTROLS

CH-SC-SU	Schem	Page	Sheet	Date	CH-SC-SU	Schem	Page	Sheet	Date
27-81-51		101		Feb 09/2009					
27-83-11		101		Feb 09/2009					
27-83-21		101		Feb 09/2009					

A = Added, R = Revised, D = Deleted, O = Overflow

**27-EFFECTIVE PAGES**

Page 5  
Aug 10/2009

D280A203

CHAPTER 27  
FLIGHT CONTROLS

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
<b><u>FLIGHT CONTROLS</u></b>						
FLIGHT CONTROLS - SIMPLIFIED	27-00-00		101	1	Feb 09/2009	ALL
				2	Feb 09/2009	ALL
				3	Feb 09/2009	ALL
<b><u>AILERON AND TAB</u></b>						
AILERON - ROLL CONTROL	27-10-01		101	1	Feb 09/2009	ALL
				2	Feb 09/2009	ALL
<b><u>AILERON TRIM CONTROL SYSTEM</u></b>						
AILERON TRIM CONTROL	27-11-11		101		Jul 17/2007	YC001-YC030
			102		Jan 14/2008	YC031-YC050 YM643-YM670
			103		Feb 09/2009	YK901-YL430
<b><u>AILERON POSITION INDICATING SYSTEM</u></b>						
AILERON POSITION INDICATION	27-18-11		101		Feb 09/2009	ALL
<b><u>RUDDER AND TAB</u></b>						
RUDDER	27-20-01		101	1	Jul 17/2007	YC001-YC030
				2	Jul 17/2007	YC001-YC030
			102	1	Feb 09/2009	YK901-YM670
				2	Feb 09/2009	YK901-YM670
<b><u>RUDDER TRIM CONTROL SYSTEM</u></b>						
RUDDER TRIM CONTROL	27-21-11		101		Jul 17/2007	YC001-YC030
			102		Jan 14/2008	YC031-YC050 YM643-YM670
			103		Feb 09/2009	YK901-YL430

CHAPTER 27  
FLIGHT CONTROLS

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
<b><u>RUDDER AND ELEVATOR CONTROL AND INDICATING</u></b>						
FLIGHT CONTROL SYS "A" SYS "B", AND STANDBY RUDDER CONTROL	27-23-11		101		Jul 17/2007	YC001-YC029
			101.1		Aug 13/2008	YC001-YC029
			102		Mar 31/2005	YC030
			102.1		Aug 13/2008	YC030
			103		May 11/2009	YC031-YK912 YK918-YK919 YL401-YL429 YM643-YM652
FLIGHT CONTROL SYS "A" AND SYS "B" LOW PRESSURE INDICATION	27-23-14		101		Mar 31/2005	YC001-YC019
			102		Feb 09/2009	YC020-YM670
<b><u>WHEEL-TO-RUDDER INTERCONNECT SYSTEM</u></b>						
WHEEL TO RUDDER INTERCONNECT SYSTEM	27-24-11		101		Feb 09/2009	ALL
<b><u>RUDDER DAMPING</u></b>						
RUDDER AUTHORITY LIMITER	27-25-11		101		Jul 17/2007	YC001-YC029
			101.1		Aug 13/2008	YC001-YC029
			102		Jul 26/2006	YC030
			102.1		Aug 13/2008	YC030
			103		Feb 09/2009	YC031-YM670
<b><u>RUDDER POSITION INDICATION SYSTEM</u></b>						
RUDDER TRIM AND POSITION INDICATION	27-28-11		101		Mar 31/2005	YC001-YC007
			102		Feb 09/2009	YC008-YM670
<b><u>ELEVATOR AND TAB</u></b>						
ELEVATOR	27-30-01		101		Feb 09/2009	ALL



CHAPTER 27  
FLIGHT CONTROLS

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
<b><u>ELEVATOR AND TAB CONTROL SYSTEM</u></b>						
ELEVATOR TAB CONTROL	27-31-11		101.1		Mar 31/2005	YC001-YC007
			102		May 11/2009	YC008-YK912 YK918-YK919 YL401-YL429 YM643-YM652
ELEVATOR FEEL DIFFERENTIAL PRESSURE	27-31-37		101.1		Mar 31/2005	YC001-YC007
			102		May 11/2009	YC008-YK912 YK918-YK919 YL401-YL429 YM643-YM652
<b><u>STALL WARNING SYSTEM</u></b>						
STALL WARNING SYSTEM 1 POWER AND ANALOGS	27-32-11		101		Jul 17/2007	YC001-YK906
			101.1		May 13/2008	YC001-YC010 YC012-YC025
			101.2		May 13/2008	YC026-YC030
			102		Feb 09/2009	YK907-YL430
			103		Jan 14/2008	YM643-YM670
STALL WARNING SYSTEM 1 DIGITAL INTERFACE	27-32-12		101		Jul 17/2007	YC001-YC030
			102		Feb 09/2009	YC031-YM670
STALL WARNING SYSTEM 2 POWER AND ANALOGS	27-32-21		101		Jul 17/2007	YC001-YK906
			101.1		May 13/2008	YC001-YC010 YC012-YC025
			101.2		May 13/2008	YC026-YC030
			102		Feb 09/2009	YK907-YL430
			103		Jan 14/2008	YM643-YM670
STALL WARNING SYSTEM 2 DIGITAL INTERFACE	27-32-22		101		Jul 17/2007	YC001-YC030
			102		Feb 09/2009	YK901-YM670
STALL IDENTIFICATION- ELEVATOR FEEL SHIFT	27-32-31		101.1		Jan 18/2007	YC001-YC007



CHAPTER 27  
FLIGHT CONTROLS

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity			
STALL IDENTIFICATION- ELEVATOR FEEL SHIFT (cont.)	27-32-31		102		Feb 09/2009	YC008-YM670			
<b><u>ELEVATOR POSITION INDICATING SYSTEM</u></b>									
ELEVATOR POSITION INDICATION	27-38-11		101		Feb 09/2009	ALL			
<b><u>HORIZONTAL STABILIZER</u></b>									
HORIZONTAL STABILIZERS	27-40-01		101		Jul 17/2007	YC001-YK906			
			102		Feb 09/2009	YK907-YM670			
<b><u>HORIZONTAL STABILIZER TRIM CONTROL SYSTEM</u></b>									
HORIZONTAL STABILIZER TRIM CONTROL	27-41-11		101.1	1	Jul 26/2006	YC001-YC011			
				2	May 11/2009	YC001-YC011			
			102	1	Jul 17/2007	YC012-YC030			
				2	May 11/2009	YC012-YC030			
			103	1	May 11/2009	YK901-YK912 YK918-YK919 YL401-YL429			
				2	May 11/2009	YK901-YK912 YK918-YK919 YL401-YL429			
			104	1	May 11/2009	YM643-YM652			
				2	May 11/2009	YM643-YM652			
			<b><u>HORIZONTAL STABILIZER TRIM POSITION INDICATING SYSTEM</u></b>						
			HORIZONTAL STABILIZER TRIM INDICATION	27-48-11		101		Feb 09/2009	ALL
<b><u>FLAPS</u></b>									
HIGHLIFT SYSTEM OVERVIEW	27-50-01		101	1	Jan 14/2008	YC001-YK906 YM643-YM670			
				2	Jan 14/2008	YC001-YK906 YM643-YM670			
				3	Jan 14/2008	YC001-YK906 YM643-YM670			

CHAPTER 27  
FLIGHT CONTROLS

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
HIGHLIFT SYSTEM OVERVIEW (cont.)	27-50-01		102	1	Feb 09/2009	YK907-YL430
				2	Feb 09/2009	YK907-YL430
				3	Feb 09/2009	YK907-YL430
<b><u>TRAILING EDGE FLAP SYSTEM</u></b>						
TRAILING EDGE UNCOMMANDED MOTION PROTECTION	27-51-11		101		Feb 09/2009	ALL
<b><u>TRAILING EDGE FLAP POSITION INDICATION SYSTEM</u></b>						
TRAILING EDGE FLAP POSITION INDICATION	27-52-11		101		Feb 09/2009	ALL
<b><u>TRAILING AND LEADING EDGE FLAP DRIVE</u></b>						
ALTERNATE TRAILING AND LEADING EDGE FLAP DRIVE	27-53-11		101.1		Jul 17/2007	YC001-YC007
			102		Feb 09/2009	YC008-YM670
TRAILING EDGE ALTERNATE FLAP DRIVE	27-53-12		101		May 11/2009	YC001-YK912 YK918-YK919 YL401-YL429 YM643-YM652
TRAILING EDGE FLAP SKEW DETECTION	27-53-21		101	1	Feb 09/2009	ALL
				2	Feb 09/2009	ALL
<b><u>FLAP LOAD LIMIT</u></b>						
TE FLAP LOAD RELIEF	27-54-11		101		Aug 13/2008	YC001-YK906 YM652-YM670
			102		Feb 09/2009	YK907-YL430
			103		Aug 13/2008	YM643-YM651
<b><u>SPOILER, DRAG DEVICES, AND VARIABLE AERODYNAMIC FAIRINGS</u></b>						
FLIGHT CONTROL AND GROUND SPOILER	27-60-01		101	1	Jul 17/2007	YC001-YK906
				2	Jul 17/2007	YC001-YK906
			102	1	Feb 09/2009	YK907-YL430



CHAPTER 27  
FLIGHT CONTROLS

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
FLIGHT CONTROL AND GROUND SPOILER (cont.)	27-60-01			2	Feb 09/2009	YK907-YL430
			103	1	Jan 14/2008	YM643-YM670
				2	Jan 14/2008	YM643-YM670
<b><u>FLIGHT SPOILER CONTROL SYSTEM</u></b>						
SPOILER SHUTOFF VALVES	27-61-11		101		Feb 09/2009	ALL
<b><u>SPEEDBRAKE CONTROL SYSTEM</u></b>						
AUTOMATIC GROUND SPEEDBRAKE CONTROL	27-62-11			1	Feb 09/2009	YC001-YC010 YC012-YC030
				2	Feb 09/2009	YC001-YC010 YC012-YC030
			101.1	1	May 13/2008	YC001-YC010 YC012-YC030
				2	May 13/2008	YC001-YC010 YC012-YC030
			102	1	Feb 09/2009	YC011 YC031-YK906
				2	Feb 09/2009	YC011 YC031-YK906
			103.1	1	Feb 09/2009	YK907
				2	Feb 09/2009	YK907
				3	Feb 09/2009	YK907
			104	1	Feb 09/2009	YK908-YL401 YL422-YL430
				2	Feb 09/2009	YK908-YL401 YL422-YL430
				3	Feb 09/2009	YK908-YL401 YL422-YL430
			105	1	Feb 09/2009	YL421
				2	Feb 09/2009	YL421
				3	Feb 09/2009	YL421
			106	1	Feb 09/2009	YM643-YM670
	2	Feb 09/2009	YM643-YM670			

CHAPTER 27  
FLIGHT CONTROLS

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
SPOILER POSITION INDICATION	27-62-14		101		Feb 09/2009	ALL
SPEEDBRAKE DEPLOYED INDICATION	27-62-21		101		Jul 17/2007	YC001-YC030 YK901-YK906
			102		Aug 13/2008	YC031-YC050 YM643-YM651
			103		Feb 09/2009	YK907-YK910 YK918
			104		Feb 09/2009	YK911-YK917 YK919-YL401
			105		May 13/2008	YL421-YL430
			106		Aug 13/2008	YM652-YM670
SPEEDBRAKE HANDLE POSITION INDICATION	27-62-37		101		Feb 09/2009	ALL
SPEEDBRAKE AUTOSTOW	27-62-41		101		Feb 09/2009	YC001-YC050
			101.1		May 13/2008	YC001-YC010 YC012-YC030
			102		May 13/2008	YM643-YM670
<b><u>LIFT AUGMENTING</u></b>						
LEADING EDGE DRIVE AND INDICATION	27-80-01		101	1	Feb 09/2009	ALL
				2	Feb 09/2009	ALL
				3	Feb 09/2009	ALL
<b><u>LEADING EDGE FLAP AND SLAT CONTROL SYSTEM</u></b>						
LEFT LEADING EDGE FLAP POSITION INDICATION	27-81-11		101		Feb 09/2009	YC001-YK910 YK918 YL401 YM643-YM670
			102		Feb 09/2009	YK911-YK917 YK919-YK920 YL421-YL430
LEFT LEADING EDGE SLAT POSITION INDICATION	27-81-12		101		Feb 09/2009	ALL
RIGHT LEADING EDGE FLAP POSITION INDICATION	27-81-21		101		Feb 09/2009	ALL
RIGHT LEADING EDGE SLAT POSITION INDICATION	27-81-22		101		Feb 09/2009	ALL

**CHAPTER 27  
FLIGHT CONTROLS**

Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
LEADING EDGE FLAPS AND SLATS MASTER INDICATION	27-81-31		101		Jan 14/2008	YC001-YK906 YM643-YM670
			102	1	Feb 09/2009	YK907-YL430
				2	Feb 09/2009	YK907-YL430
DFDAU AND TEST CONNECTOR INTERFACE	27-81-41		101		Jan 14/2008	YC001-YK906 YM643-YM670
			102		Feb 09/2009	YK907-YL430
LEADING EDGE UNCOMMANDED MOTION PROTECTION	27-81-51		101		Feb 09/2009	ALL
<b><u>LEADING EDGE AUTOSLAT SYSTEM</u></b>						
AUTOSLAT SYSTEM NO. 1	27-83-11		101		Feb 09/2009	ALL
AUTOSLAT SYSTEM NO. 2	27-83-21		101		Feb 09/2009	ALL

**CHAPTER 27  
FLIGHT CONTROLS**

CH-SC-SU	Title
27-10-01	AILERON - ROLL CONTROL
27-18-11	AILERON POSITION INDICATION
27-11-11	AILERON TRIM CONTROL
27-53-11	ALTERNATE TRAILING AND LEADING EDGE FLAP DRIVE
27-62-11	AUTOMATIC GROUND SPEEDBRAKE CONTROL
27-83-11	AUTOSLAT SYSTEM NO. 1
27-83-21	AUTOSLAT SYSTEM NO. 2
27-81-41	DFDAU AND TEST CONNECTOR INTERFACE
27-30-01	ELEVATOR
27-31-37	ELEVATOR FEEL DIFFERENTIAL PRESSURE
27-38-11	ELEVATOR POSITION INDICATION
27-31-11	ELEVATOR TAB CONTROL
27-60-01	FLIGHT CONTROL AND GROUND SPOILER
27-23-14	FLIGHT CONTROL SYS "A" AND SYS "B" LOW PRESSURE INDICATION
27-23-11	FLIGHT CONTROL SYS "A" SYS "B", AND STANDBY RUDDER CONTROL
27-00-00	FLIGHT CONTROLS - SIMPLIFIED
27-50-01	HIGHLIFT SYSTEM OVERVIEW
27-41-11	HORIZONTAL STABILIZER TRIM CONTROL

CH-SC-SU	Title
27-48-11	HORIZONTAL STABILIZER TRIM INDICATION
27-40-01	HORIZONTAL STABILIZERS
27-80-01	LEADING EDGE DRIVE AND INDICATION
27-81-31	LEADING EDGE FLAPS AND SLATS MASTER INDICATION
27-81-51	LEADING EDGE UNCOMMANDED MOTION PROTECTION
27-81-11	LEFT LEADING EDGE FLAP POSITION INDICATION
27-81-12	LEFT LEADING EDGE SLAT POSITION INDICATION
27-81-21	RIGHT LEADING EDGE FLAP POSITION INDICATION
27-81-22	RIGHT LEADING EDGE SLAT POSITION INDICATION
27-20-01	RUDDER
27-25-11	RUDDER AUTHORITY LIMITER
27-28-11	RUDDER TRIM AND POSITION INDICATION
27-21-11	RUDDER TRIM CONTROL
27-62-41	SPEEDBRAKE AUTOSTOW
27-62-21	SPEEDBRAKE DEPLOYED INDICATION
27-62-37	SPEEDBRAKE HANDLE POSITION INDICATION
27-62-14	SPOILER POSITION INDICATION
27-61-11	SPOILER SHUTOFF VALVES
27-32-31	STALL IDENTIFICATION- ELEVATOR FEEL SHIFT

**27-ALPHABETICAL INDEX**

**CHAPTER 27  
FLIGHT CONTROLS**

CH-SC-SU	Title
27-32-12	STALL WARNING SYSTEM 1 DIGITAL INTERFACE
27-32-11	STALL WARNING SYSTEM 1 POWER AND ANALOGS
27-32-22	STALL WARNING SYSTEM 2 DIGITAL INTERFACE
27-32-21	STALL WARNING SYSTEM 2 POWER AND ANALOGS
27-54-11	TE FLAP LOAD RELIEF
27-53-12	TRAILING EDGE ALTERNATE FLAP DRIVE
27-52-11	TRAILING EDGE FLAP POSITION INDICATION
27-53-21	TRAILING EDGE FLAP SKEW DETECTION
27-51-11	TRAILING EDGE UNCOMMANDED MOTION PROTECTION
27-24-11	WHEEL TO RUDDER INTERCONNECT SYSTEM

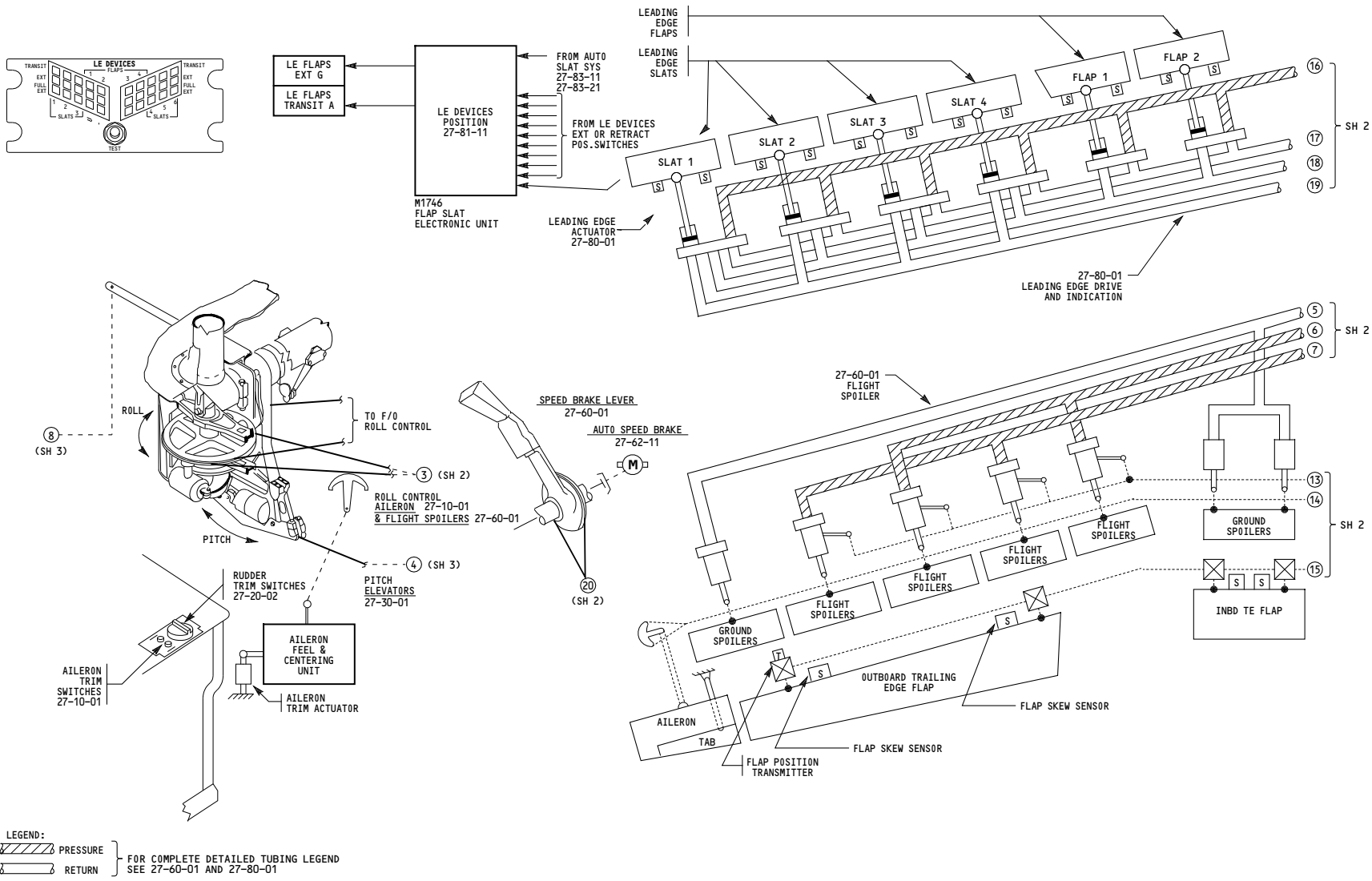
CH-SC-SU	Title
----------	-------

**27-ALPHABETICAL INDEX**



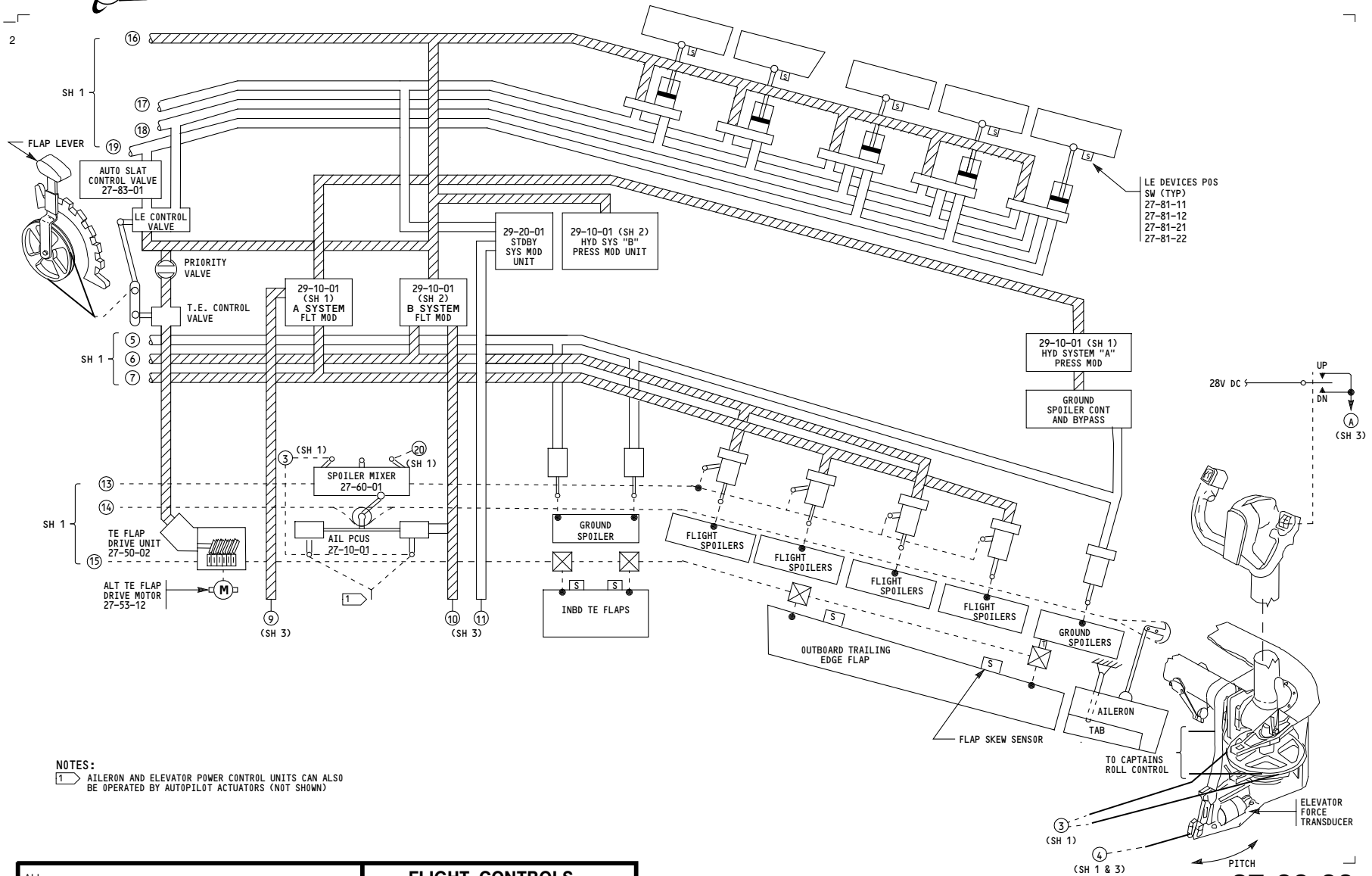
THIS PAGE INTENTIONALLY LEFT BLANK

-A  
2



ALL	<p><b>FLIGHT CONTROLS - SIMPLIFIED</b></p> <p>D280A203</p>
-----	------------------------------------------------------------

**27-00-00**

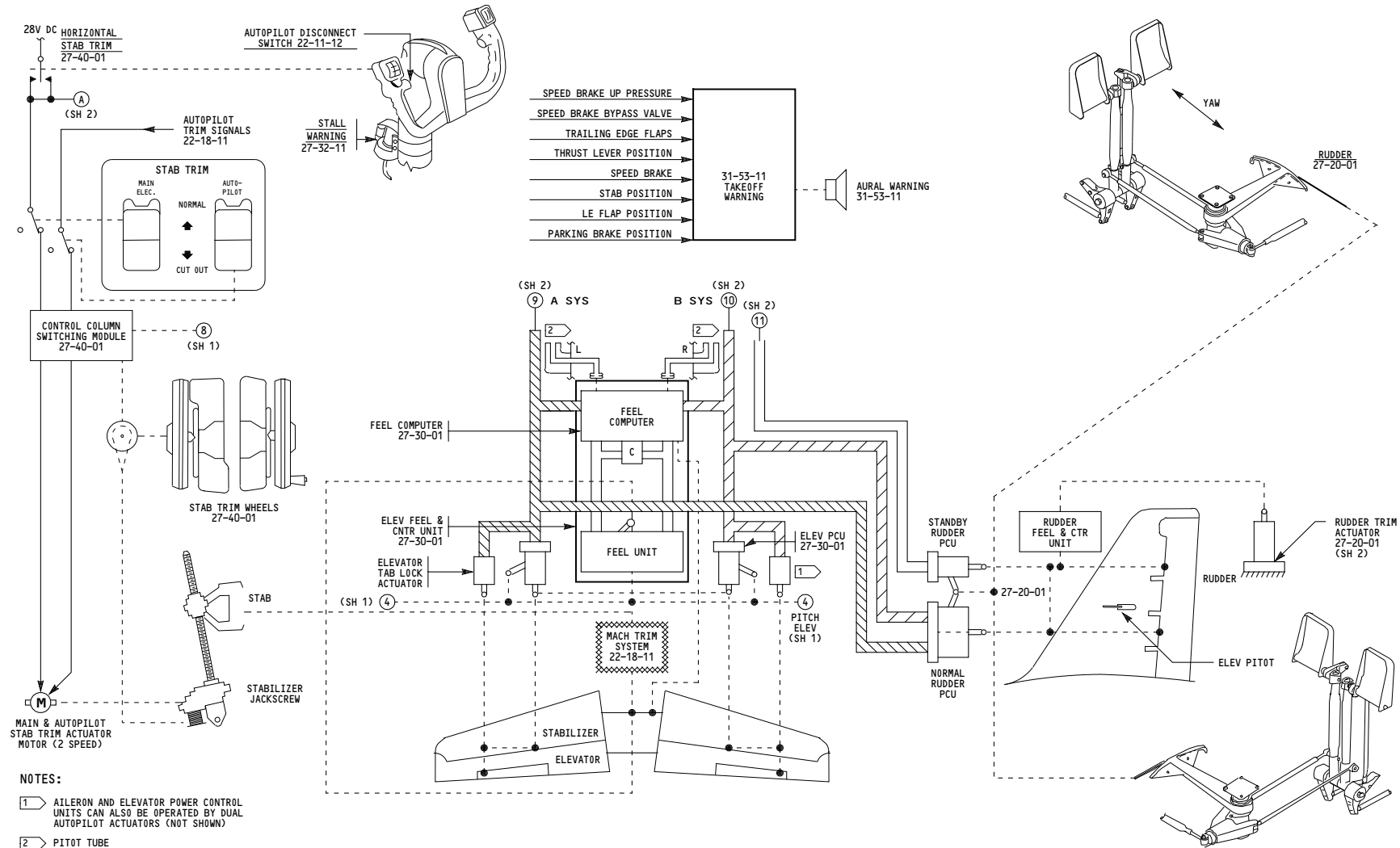


**NOTES:**  
 1 AILERON AND ELEVATOR POWER CONTROL UNITS CAN ALSO BE OPERATED BY AUTOPILOT ACTUATORS (NOT SHOWN)

ALL	<b>FLIGHT CONTROLS - SIMPLIFIED</b>  D280A203
-----	-----------------------------------------------------

**27-00-00**

-B  
1



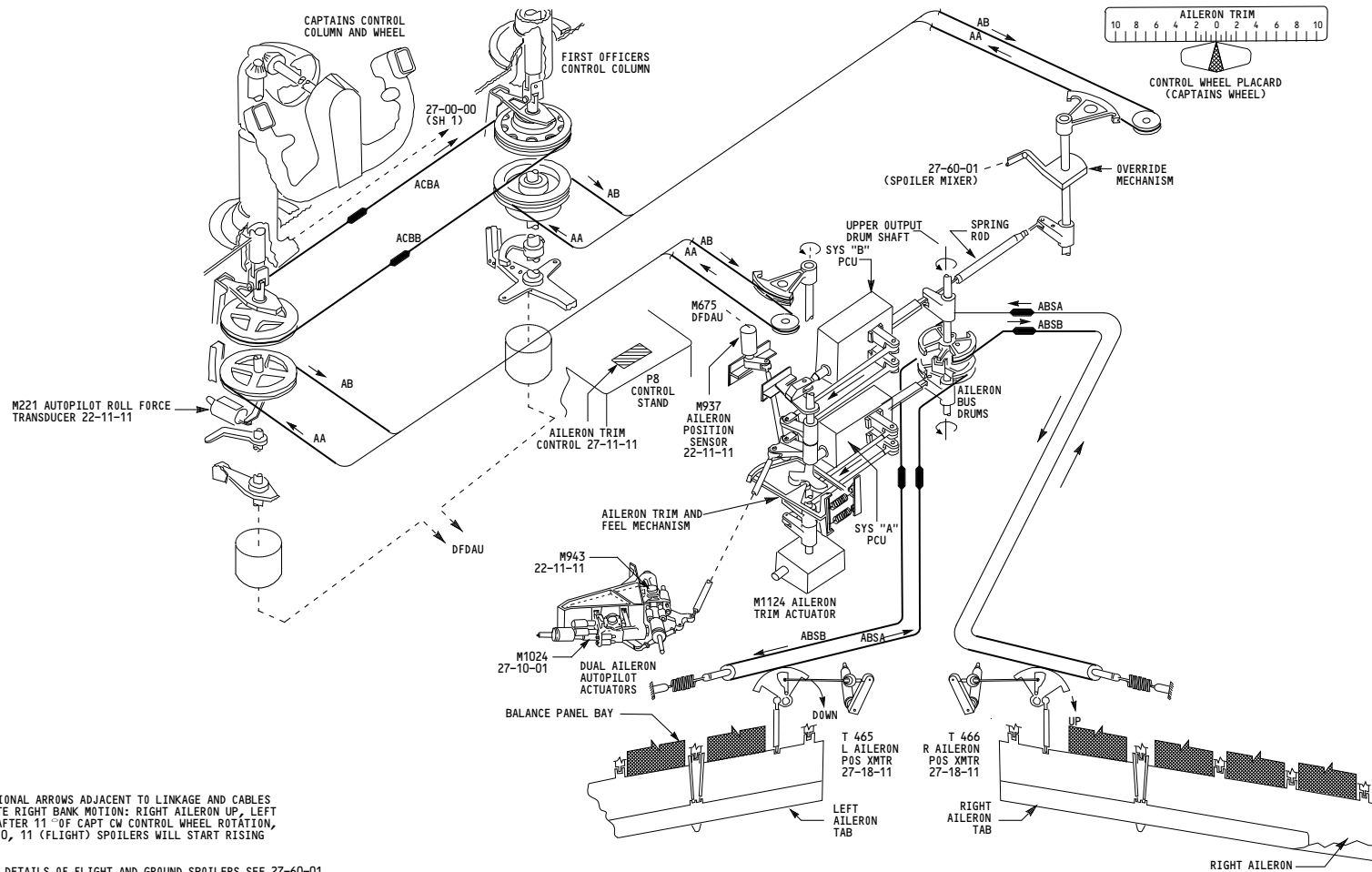
- NOTES:**
- 1 AILERON AND ELEVATOR POWER CONTROL UNITS CAN ALSO BE OPERATED BY DUAL AUTOPILOT ACTUATORS (NOT SHOWN)
  - 2 PITOT TUBE

ALL	<b>FLIGHT CONTROLS - SIMPLIFIED</b>
D280A203	

**27-00-00**

THIS PAGE INTENTIONALLY LEFT BLANK

-B  
2



**NOTES:**

1. DIRECTIONAL ARROWS ADJACENT TO LINKAGE AND CABLES INDICATE RIGHT BANK MOTION: RIGHT AILERON UP, LEFT DOWN, AFTER 11° OF CAPT CW CONTROL WHEEL ROTATION, 8, 9, 10, 11 (FLIGHT) SPOILERS WILL START RISING
2. FOR DETAILS OF FLIGHT AND GROUND SPOILERS SEE 27-60-01
3. AILERON TRIM ACTUATOR REPOSITIONS CAM ROLLER ARM AND CENTERING SPRING. PILOTS CONTROL WHEEL NEUTRAL WILL SHIFT AS A FUNCTION OF ACTUATOR POSITION.

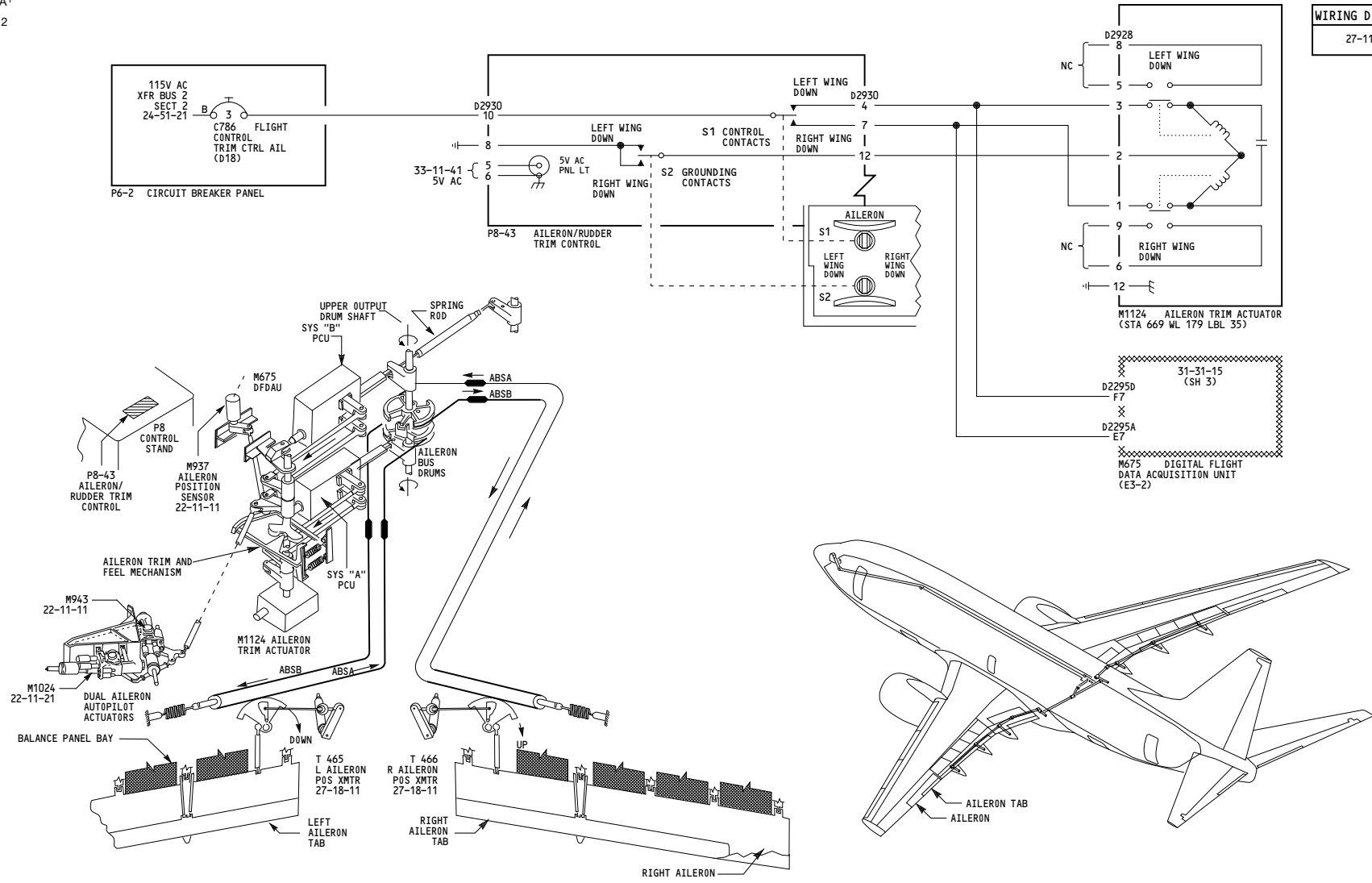
ALL	<b>AILERON - ROLL CONTROL</b>
D280A203	

**27-10-01**



-A  
2

**WIRING DIAGRAMS**  
27-11-11



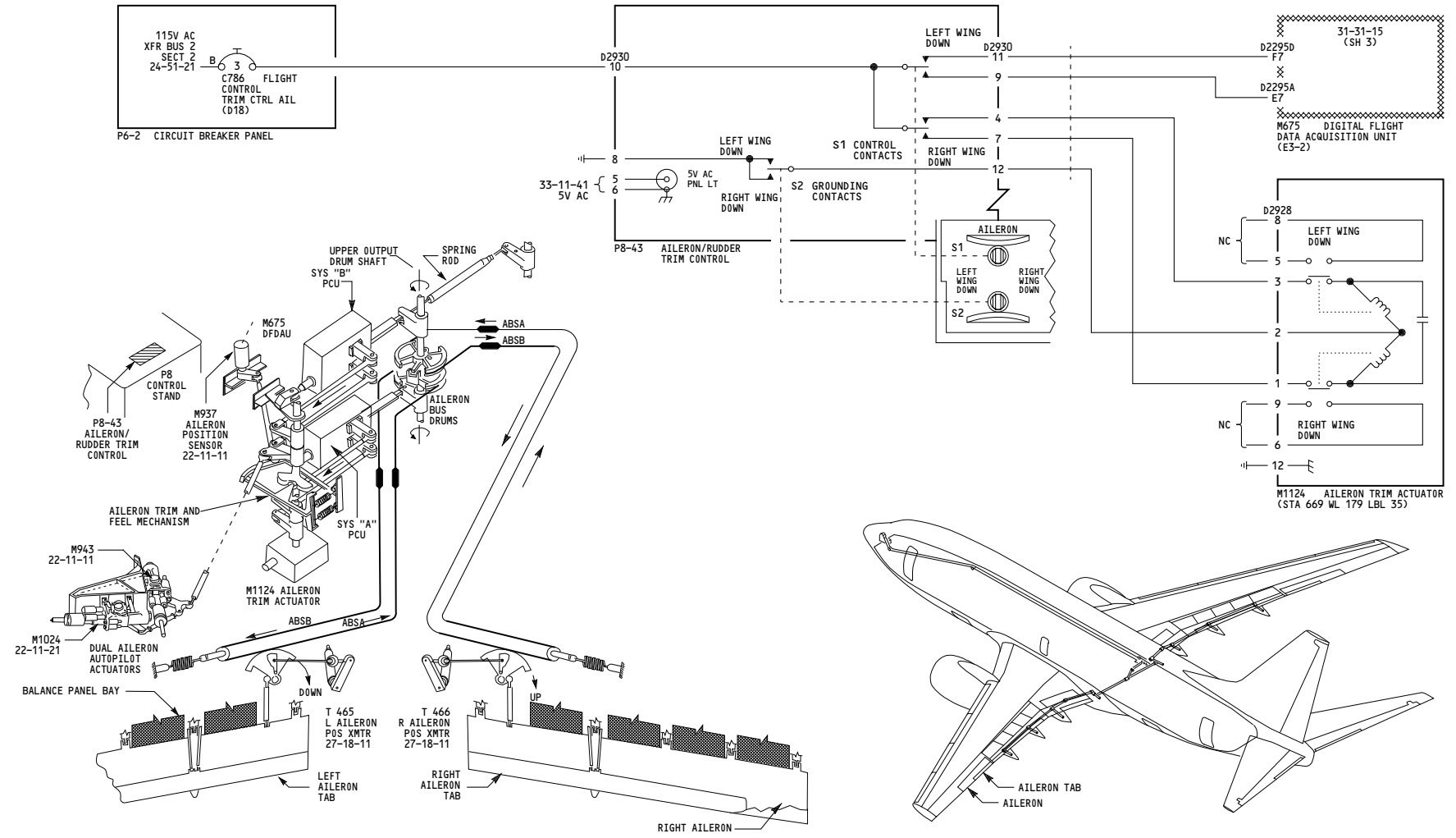
<p>YC001-YC030</p>	<p><b>AILERON TRIM CONTROL</b></p> <p>D280A203</p>
--------------------	----------------------------------------------------

**27-11-11**

Page 101

Jul 17/2007

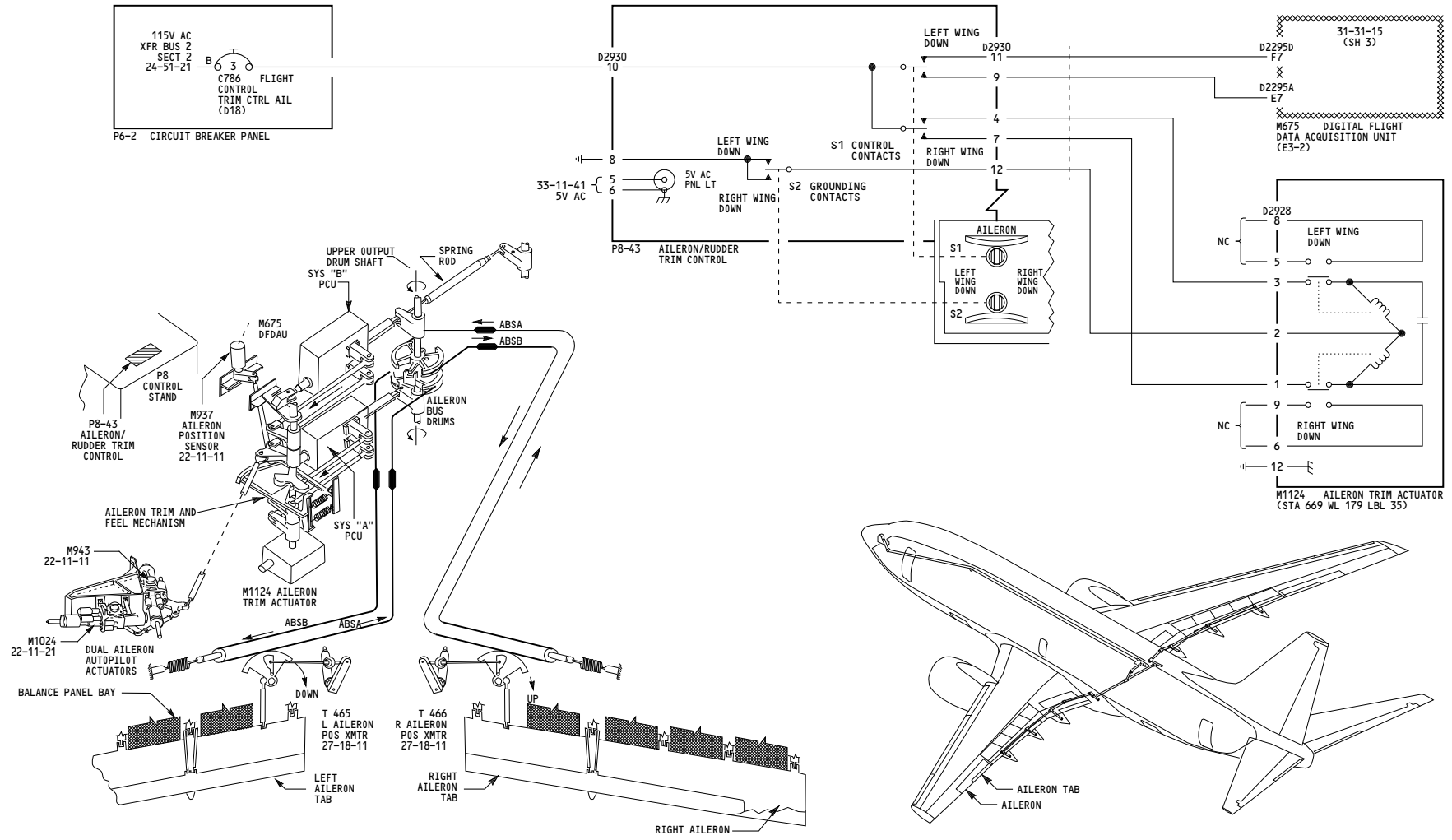




YC031-YC050, YM643-YM670	<b>AILERON TRIM CONTROL</b>
	D280A203

**27-11-11**

4



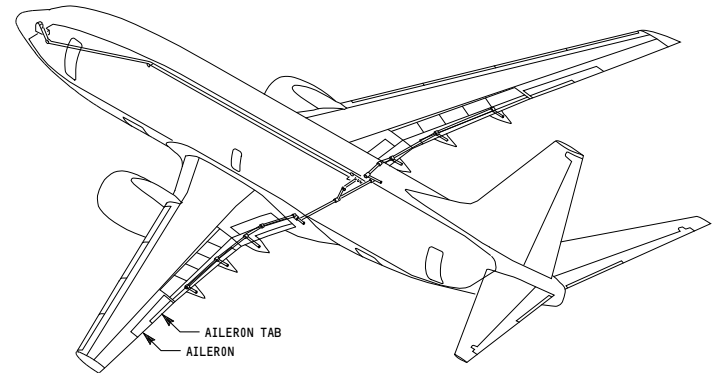
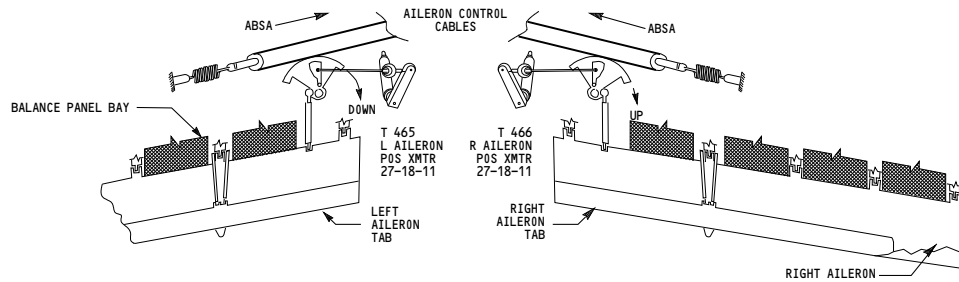
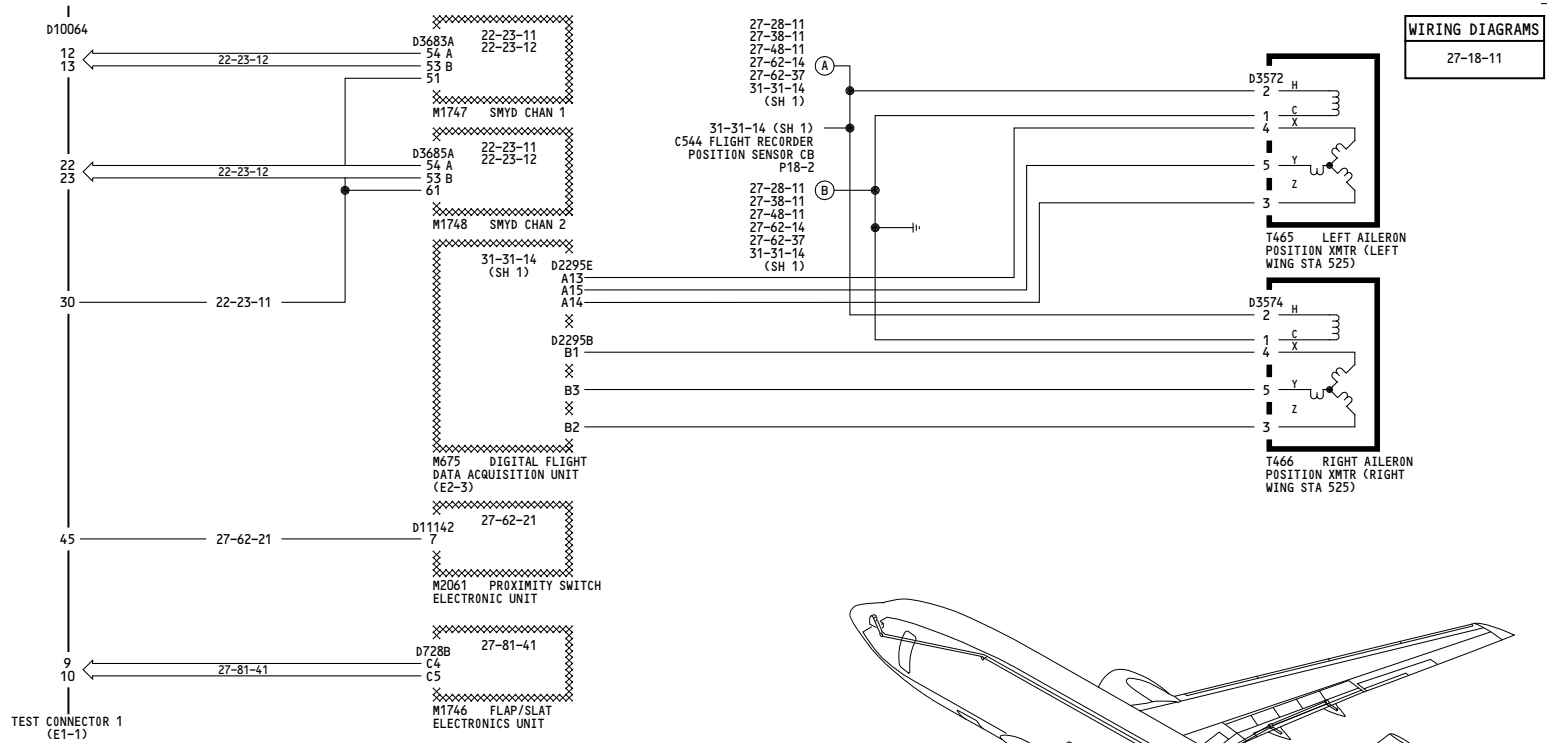
<p>YK901-YL430</p>	<p><b>AILERON TRIM CONTROL</b></p> <p>D280A203</p>
--------------------	----------------------------------------------------

**27-11-11**

Page 103

Feb 09/2009

-A  
2



ALL

**AILERON POSITION  
INDICATION**

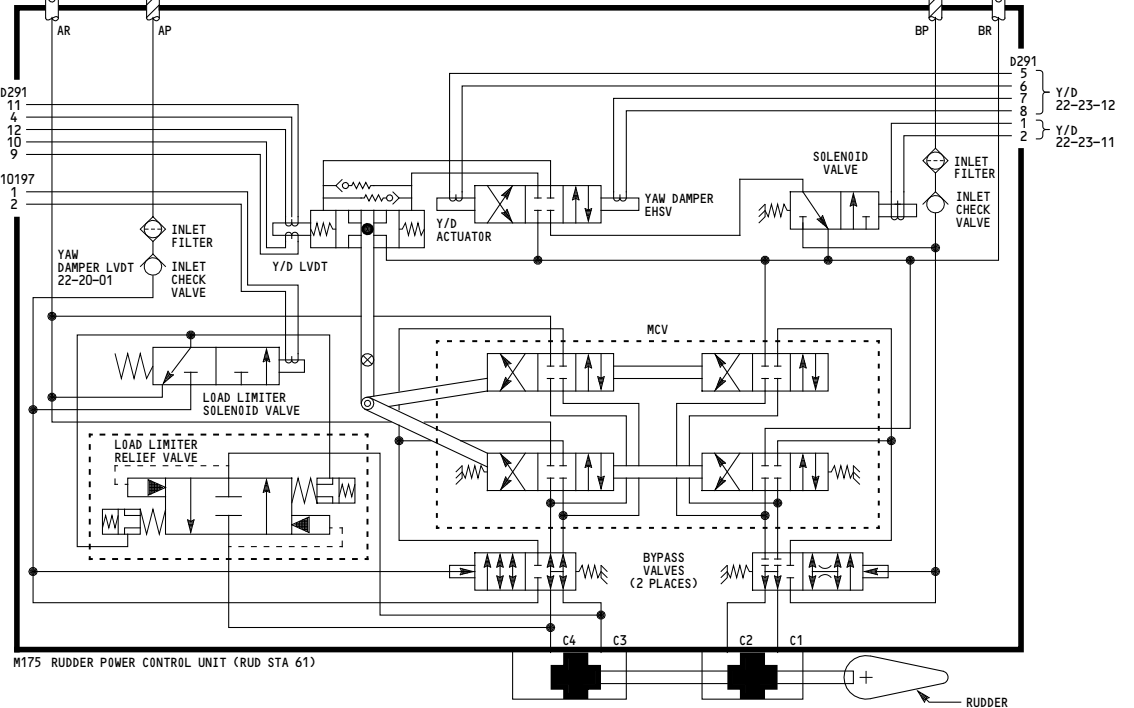
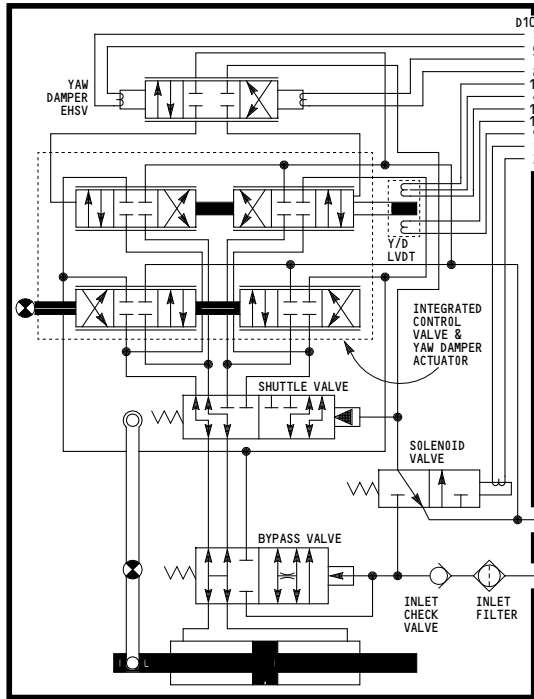
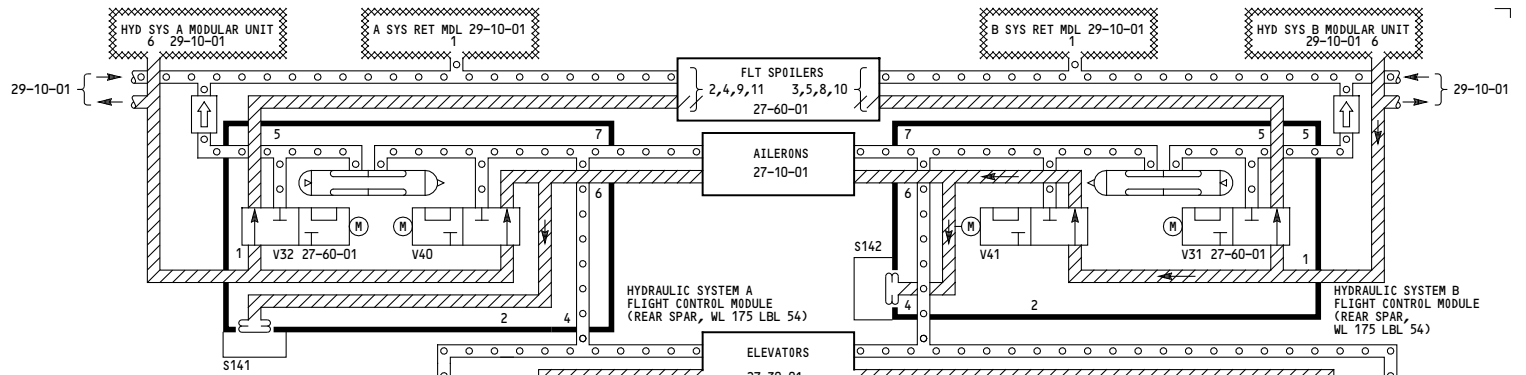
D280A203

**27-18-11**

Page 101

Feb 09/2009

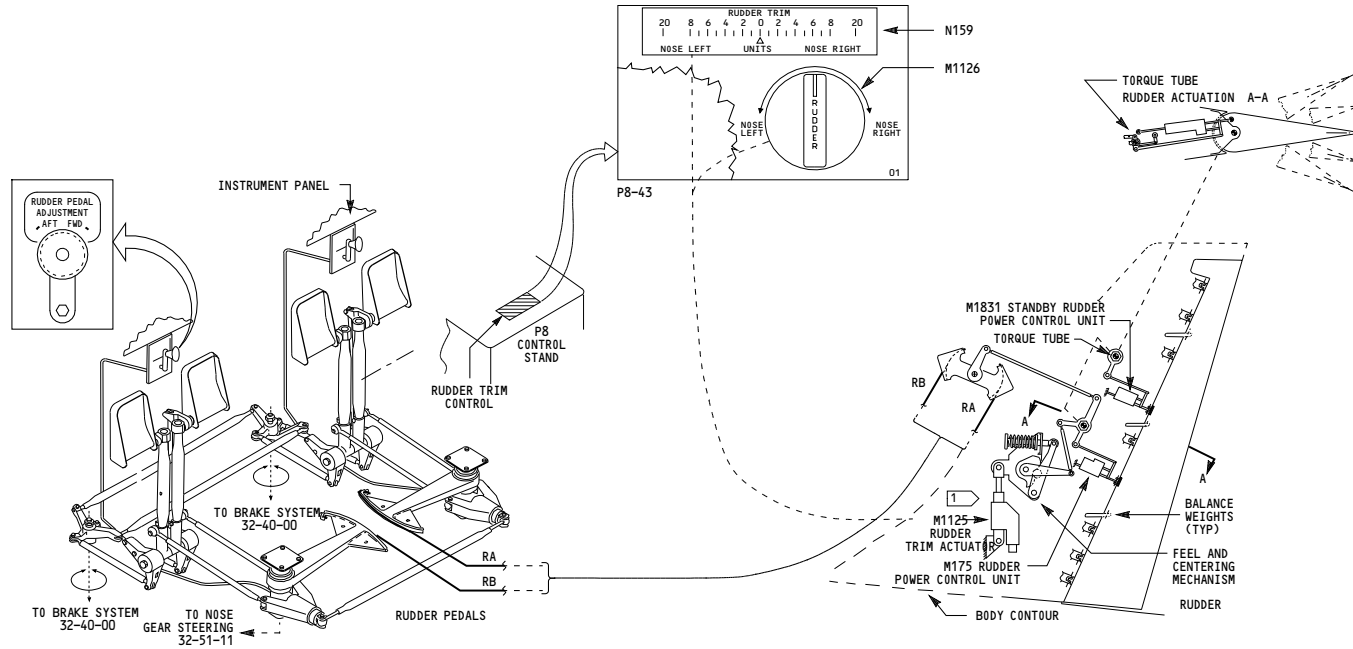
1



YC001-YC030	<b>RUDDER</b>
	D280A203

**27-20-01**

-A  
1



- NOTES:
- FOR ELECTRICAL CONNECTION DETAILS SEE:  
 27-21-11 FOR M1125, M1126  
 27-28-11 FOR N159  
 22-23-12 FOR M175

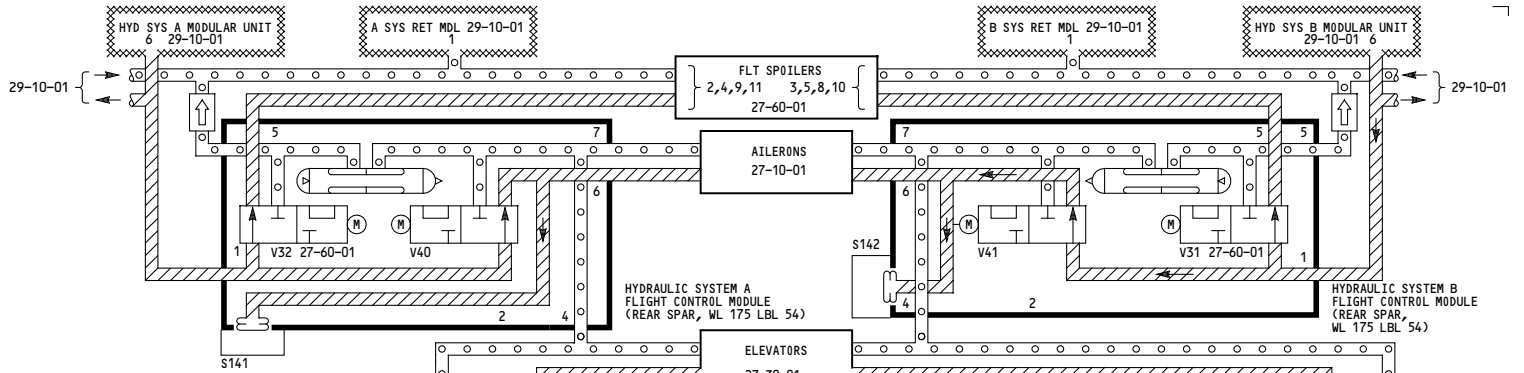
YC001-YC030	<p style="text-align: center;"><b>RUDDER</b></p> <p style="text-align: center;">D280A203</p>
-------------	----------------------------------------------------------------------------------------------

**27-20-01**

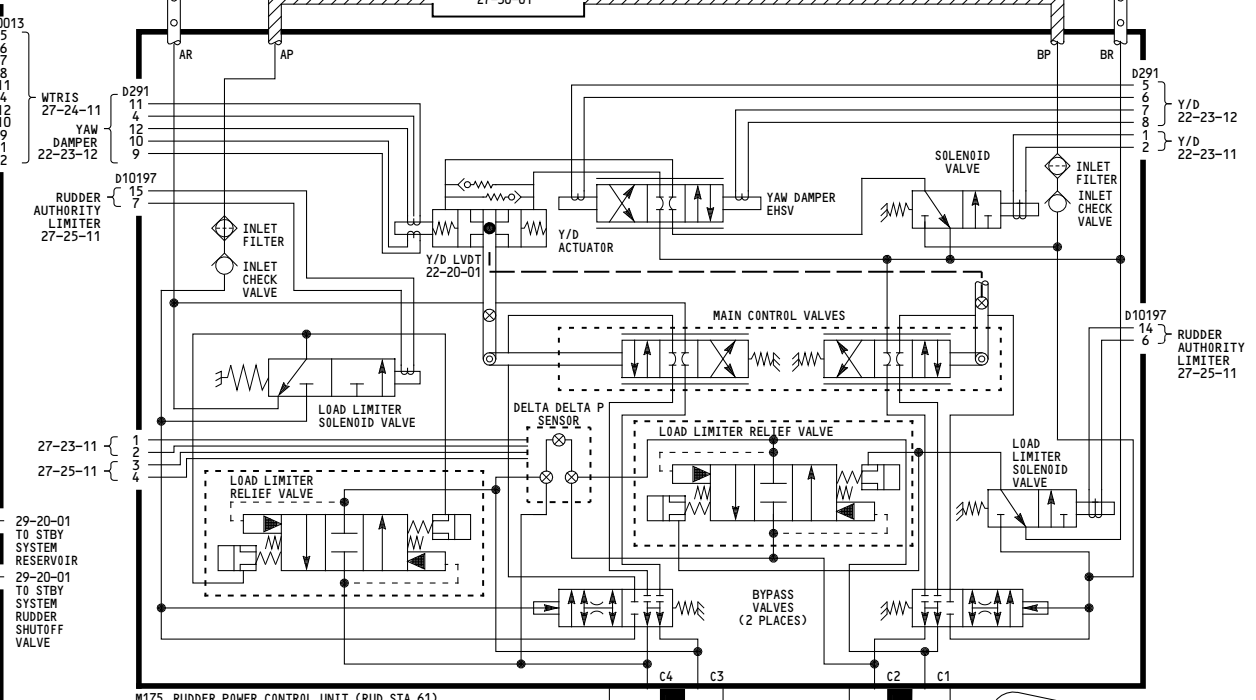
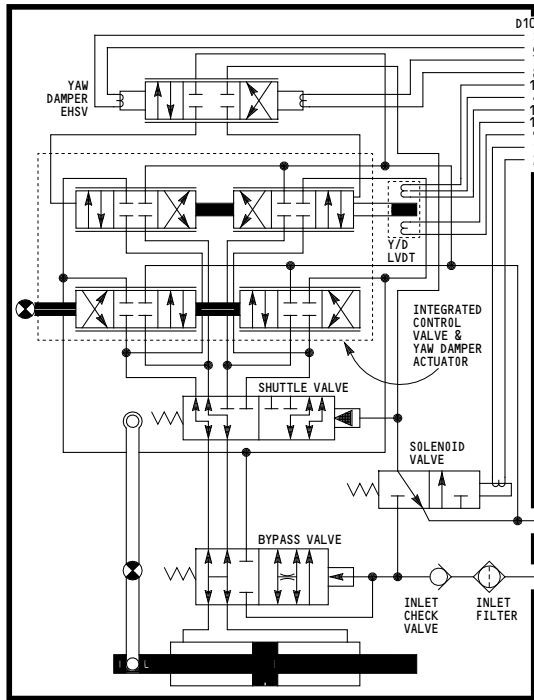
Page 101  
 Sheet 2  
 Jul 17/2007

-A  
3

WIRING DIAGRAMS	
22-23-12	
27-24-11	
27-25-11	



PRESSURE  
 RETURN



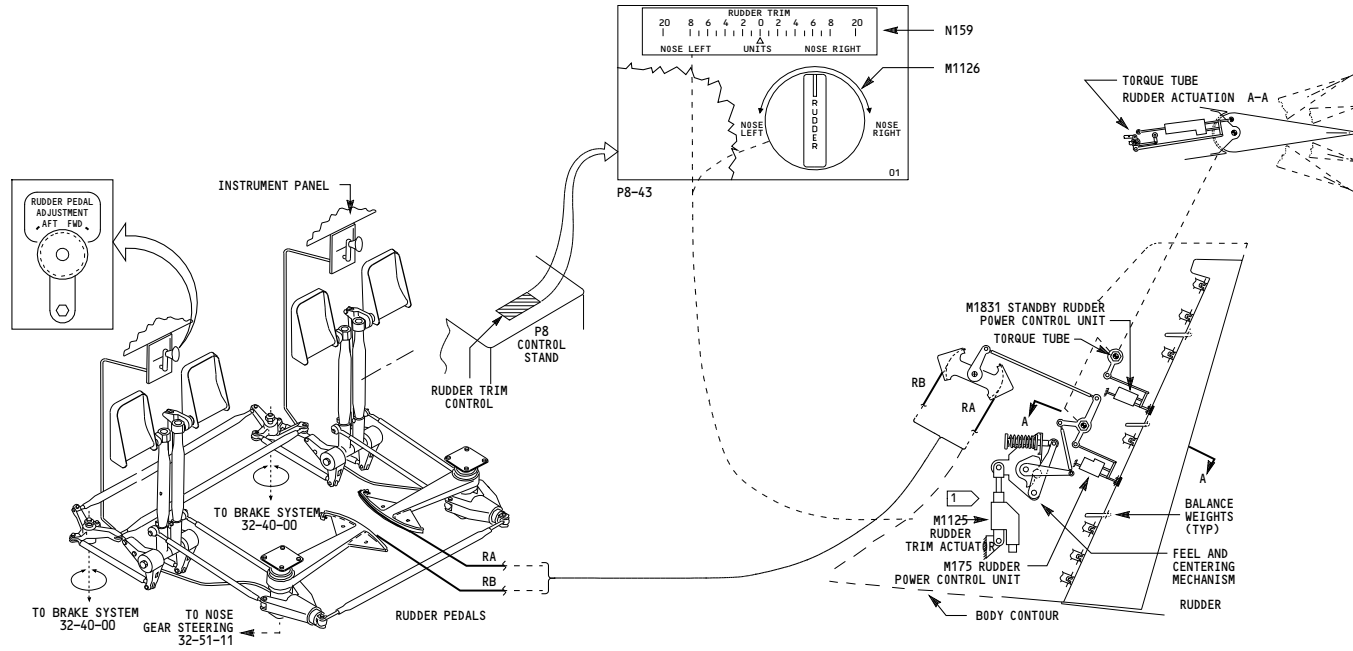
M1831 STANDBY RUDDER PCU (RUD STA 27)

M175 RUDDER POWER CONTROL UNIT (RUD STA 61)

YK901-YM670	<b>RUDDER</b>
	D280A203

**27-20-01**

-A  
1



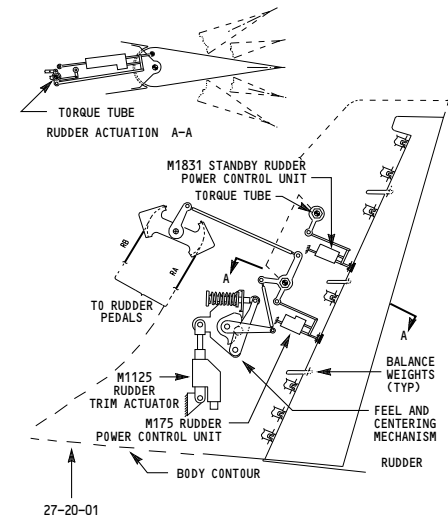
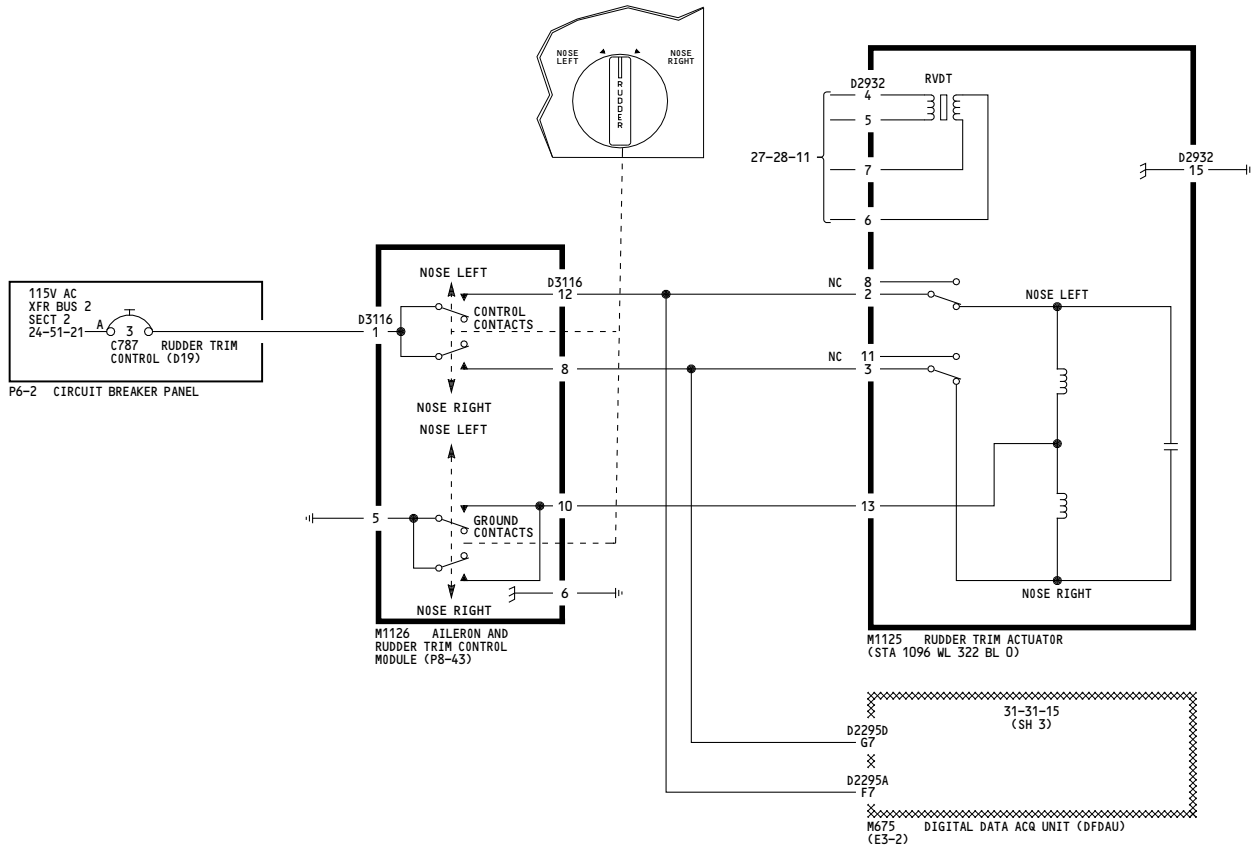
- NOTES:**
- FOR ELECTRICAL CONNECTION DETAILS SEE:  
 27-21-11 FOR M1125, M1126  
 27-28-11 FOR N159  
 22-23-12 FOR M175

YK901-YM670	<p style="text-align: center;"><b>RUDDER</b></p> <p style="text-align: center;">D280A203</p>
-------------	----------------------------------------------------------------------------------------------

**27-20-01**

Page 102  
 Sheet 2  
 Feb 09/2009

1



YC001-YC030	<p align="center"><b>RUDDER TRIM CONTROL</b></p> <p align="center">D280A203</p>
-------------	---------------------------------------------------------------------------------

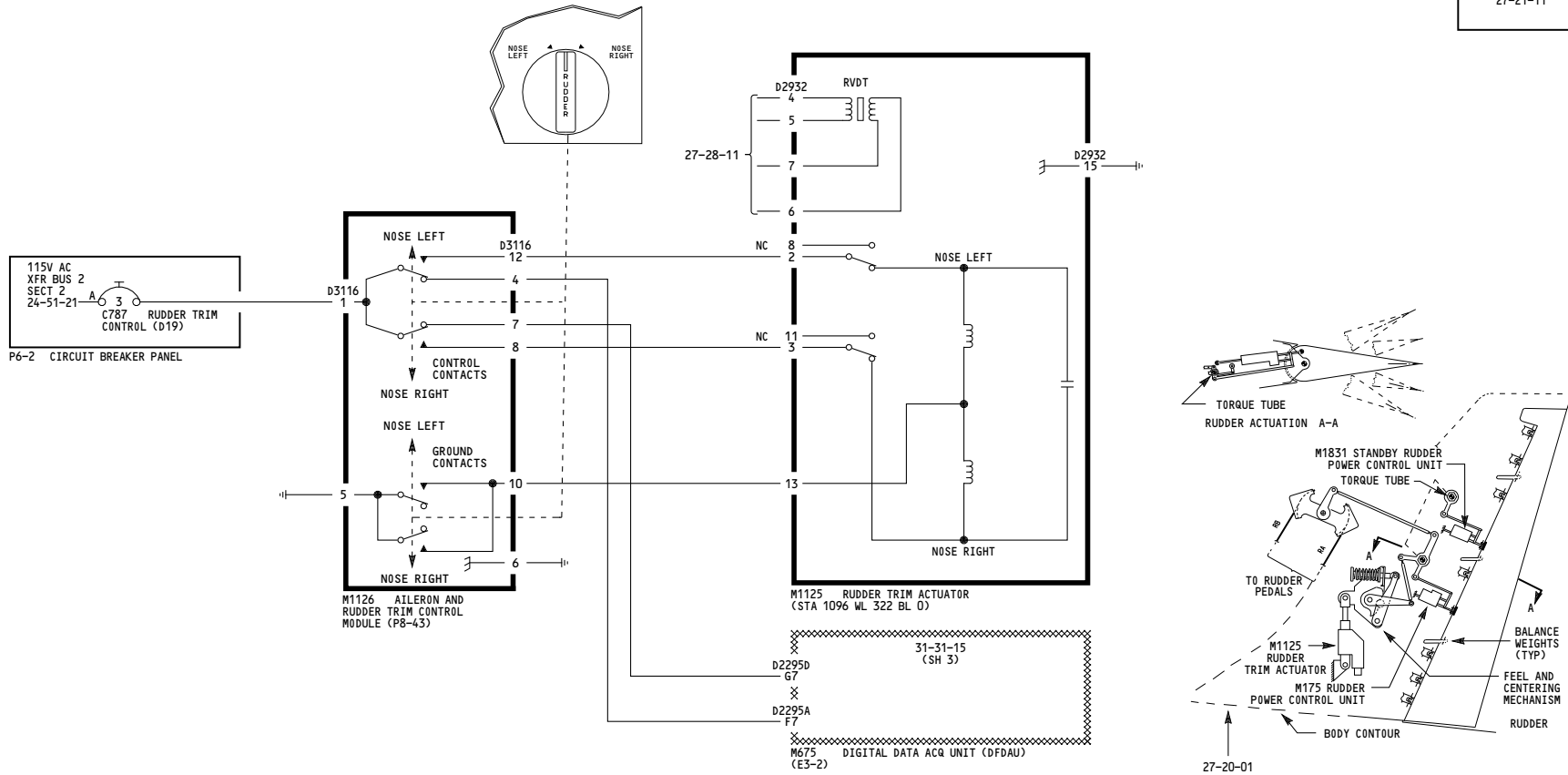
**27-21-11**

Page 101

Jul 17/2007



2

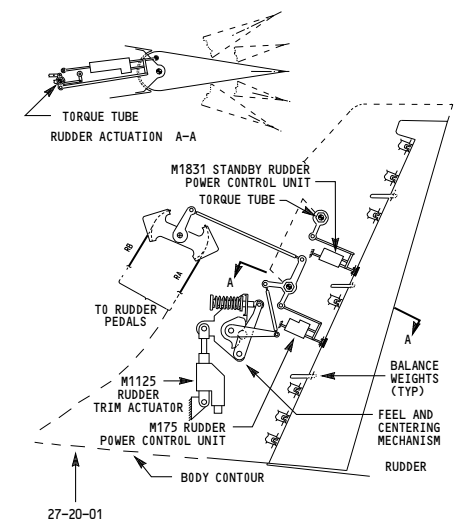
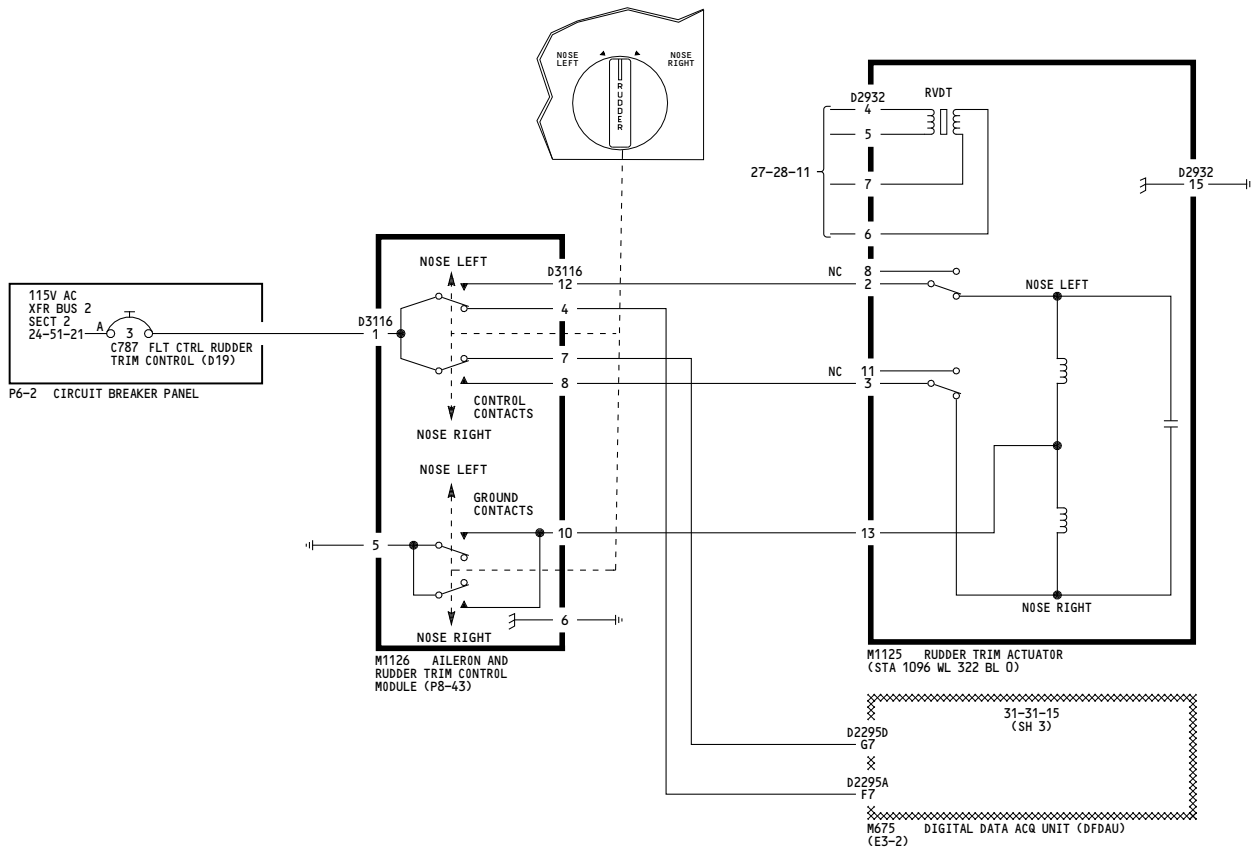


<p>YC031-YC050, YM643-YM670</p>	<p><b>RUDDER TRIM CONTROL</b></p>   <p>D280A203</p>
---------------------------------	--------------------------------------------------------------

**27-21-11**

-A  
3

WIRING DIAGRAMS  
27-21-11



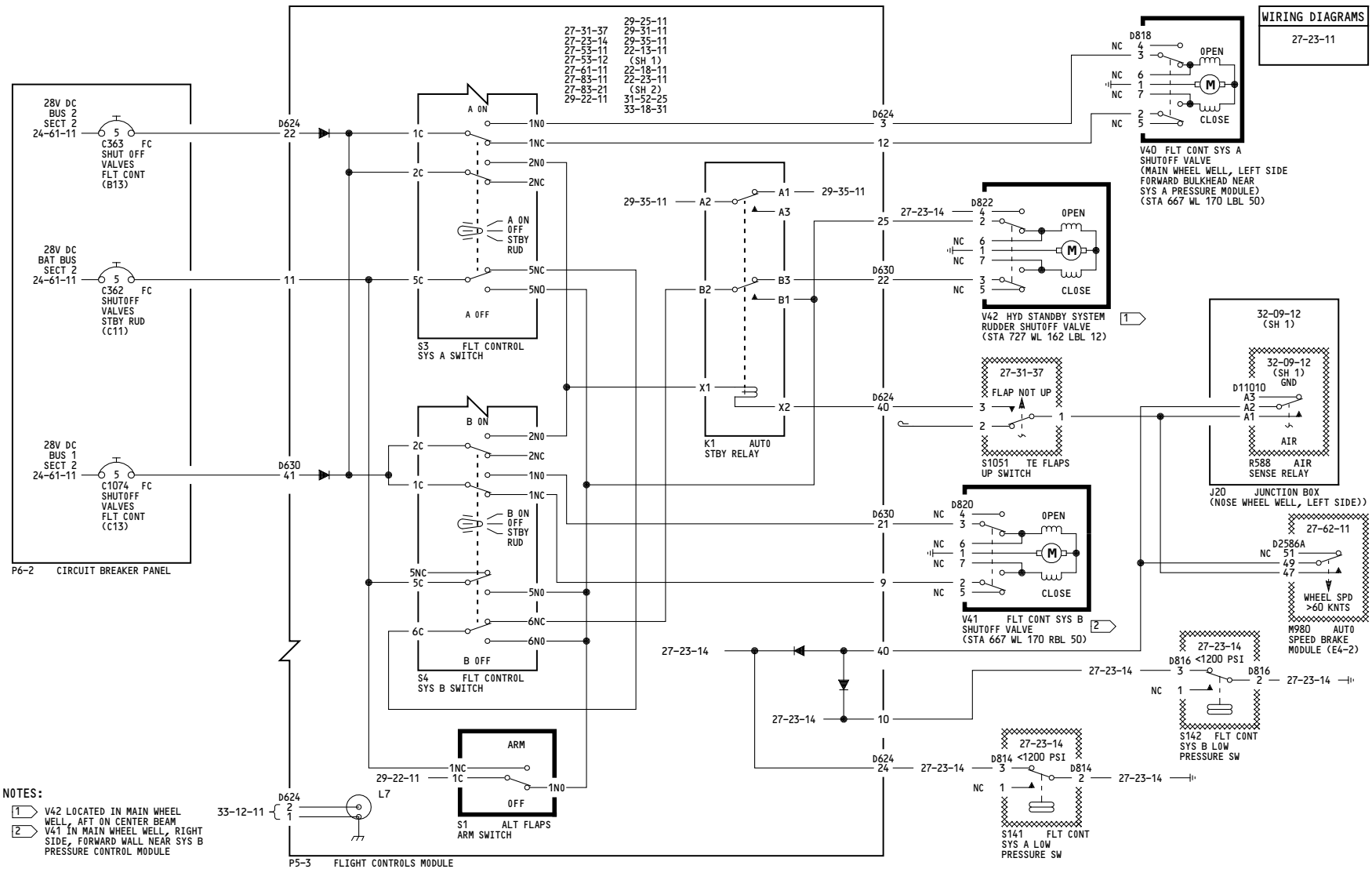
YK901-YL430	<p align="center"><b>RUDDER TRIM CONTROL</b></p> <p align="center">D280A203</p>
-------------	---------------------------------------------------------------------------------

**27-21-11**

Page 103

Feb 09/2009

-N-  
1



**WIRING DIAGRAMS**  
27-23-11

**NOTES:**  
 1 V42 LOCATED IN MAIN WHEEL WELL, AFT ON CENTER BEAM  
 2 V41 IN MAIN WHEEL WELL, RIGHT SIDE, FORWARD WALL NEAR SYS B PRESSURE CONTROL MODULE

YC001-YC029

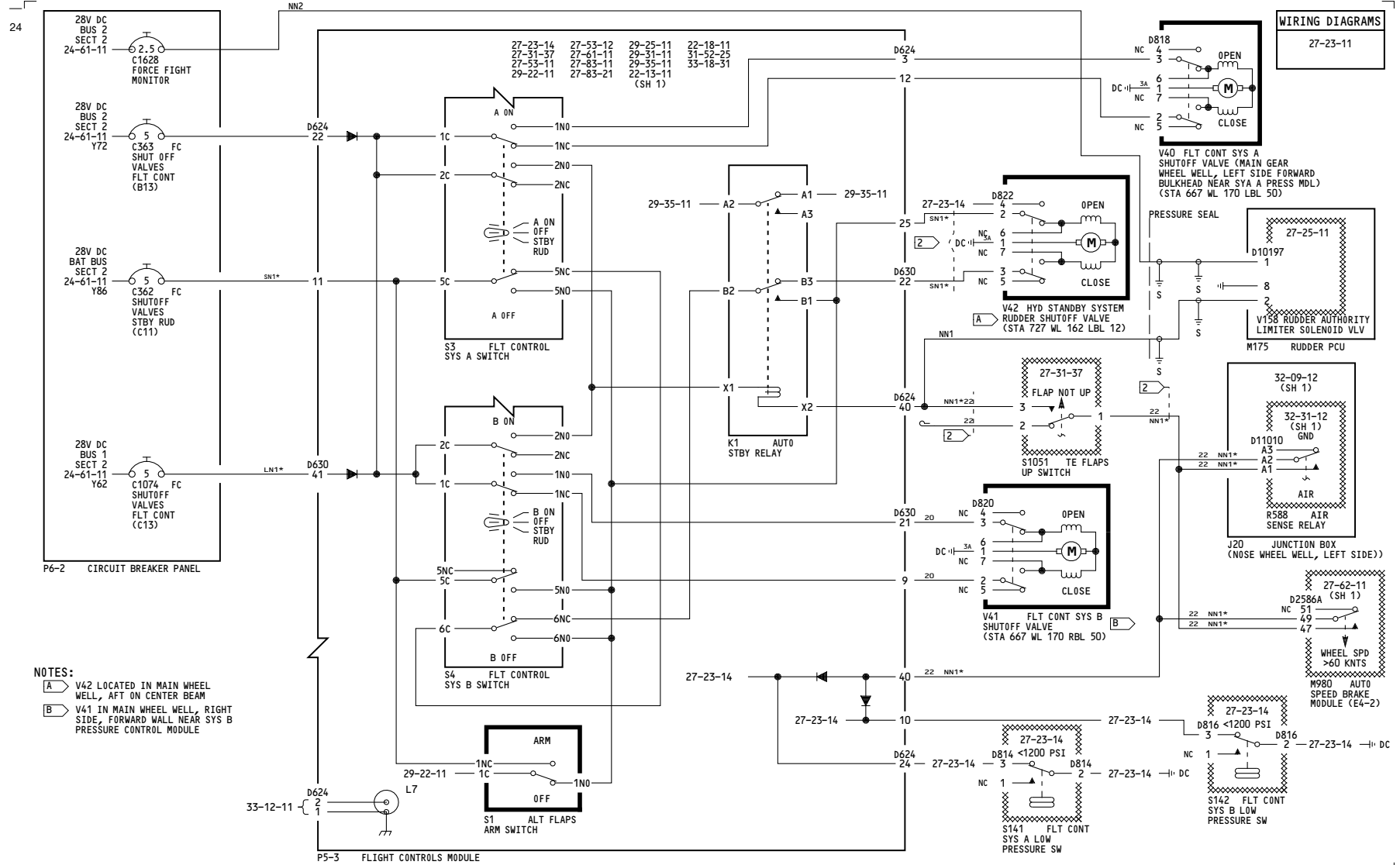
**FLIGHT CONTROL SYS "A"  
SYS "B", AND STANDBY  
RUDDER CONTROL**

D280A203

**27-23-11**

Page 101

Jul 17/2007



**WIRING DIAGRAMS**  
27-23-11

**NOTES:**  
**A** V42 LOCATED IN MAIN WHEEL WELL, AFT ON CENTER BEAM  
**B** V41 IN MAIN WHEEL WELL, RIGHT SIDE, FORWARD WALL NEAR SYS B PRESSURE CONTROL MODULE

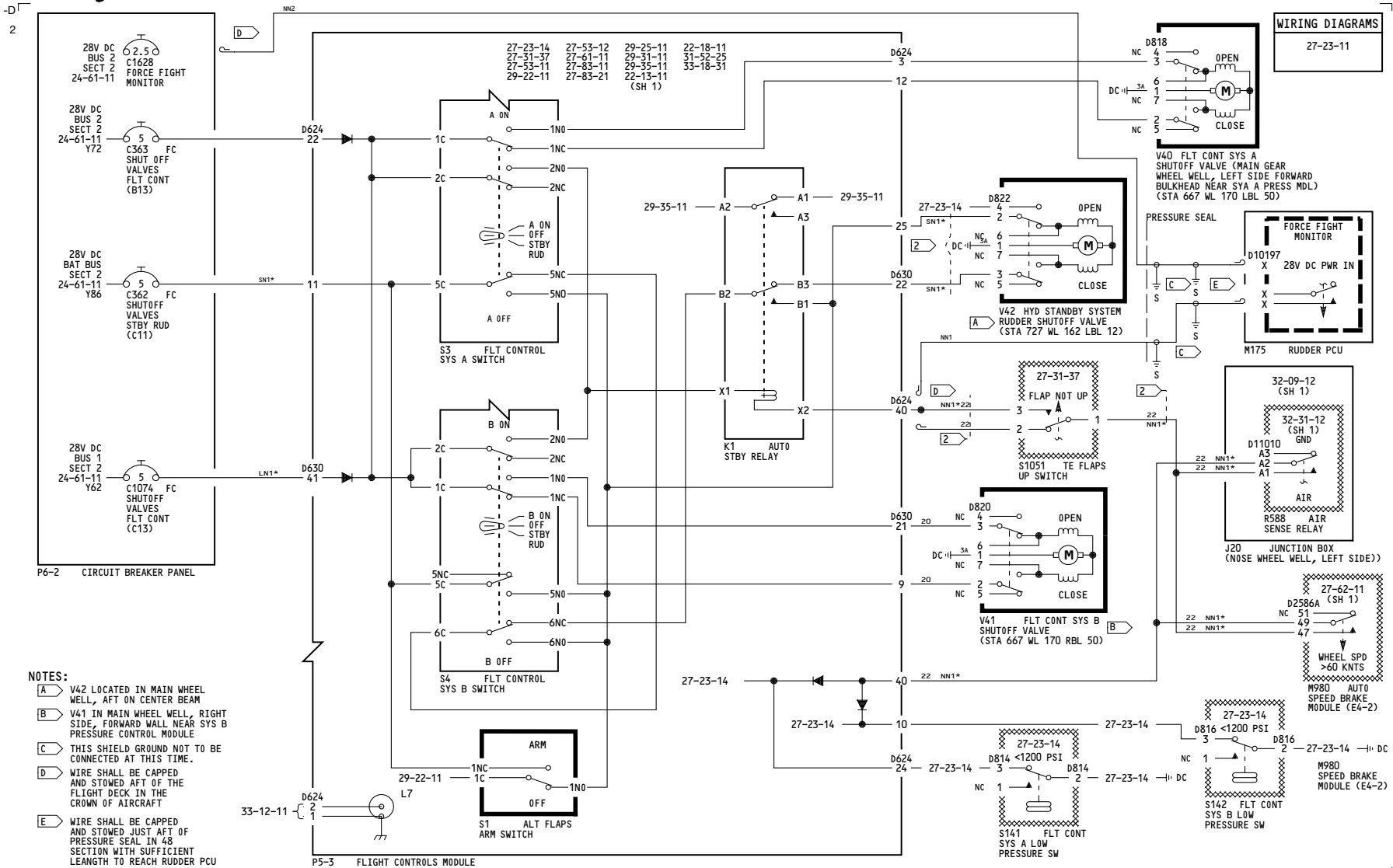
YC001-YC029

**FLIGHT CONTROL SYS "A" SYS "B", AND STANDBY RUDDER CONTROL**

D280A203

Incorporates  
 27-1247  
 27-1253 R03

**27-23-11**  
 Page 101.1  
 Aug 13/2008



**WIRING DIAGRAMS**  
27-23-11

- NOTES:**
- [A] V42 LOCATED IN MAIN WHEEL WELL, AFT ON CENTER BEAM
  - [B] V41 IN MAIN WHEEL WELL, RIGHT SIDE, FORWARD WALL NEAR SYS B PRESSURE CONTROL MODULE
  - [C] THIS SHIELD GROUND NOT TO BE CONNECTED AT THIS TIME.
  - [D] WIRE SHALL BE CAPPED AND STOWED AFT OF THE FLIGHT DECK IN THE CROWN OF AIRCRAFT
  - [E] WIRE SHALL BE CAPPED AND STOWED JUST AFT OF PRESSURE SEAL IN 48 SECTION WITH SUFFICIENT LENGTH TO REACH RUDDER PCU

YC030

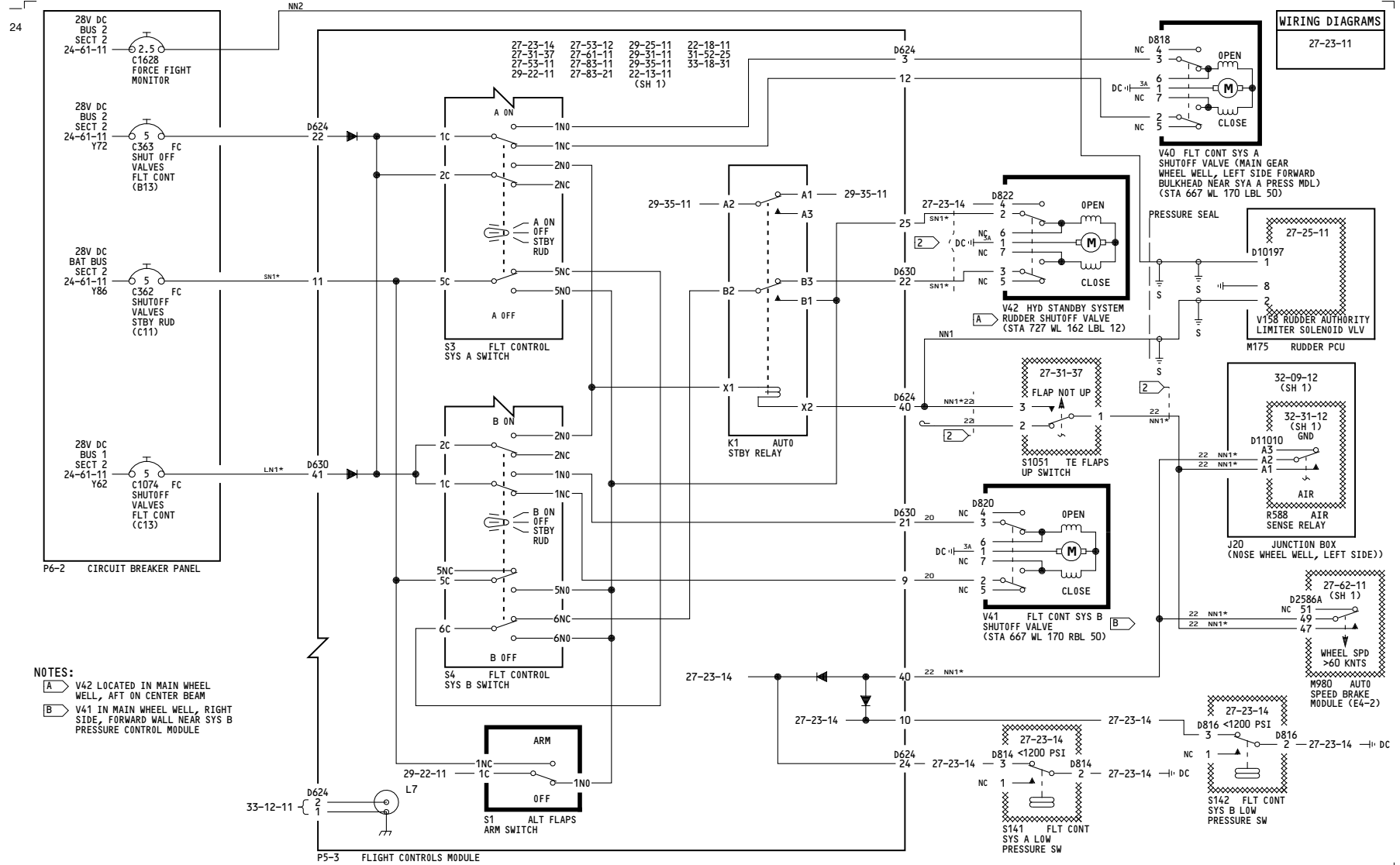
**FLIGHT CONTROL SYS "A"  
SYS "B", AND STANDBY  
RUDDER CONTROL**

D280A203

**27-23-11**

Page 102

Mar 31/2005



**WIRING DIAGRAMS**  
27-23-11

**NOTES:**  
**A** V42 LOCATED IN MAIN WHEEL WELL, AFT ON CENTER BEAM  
**B** V41 IN MAIN WHEEL WELL, RIGHT SIDE, FORWARD WALL NEAR SYS B PRESSURE CONTROL MODULE

YC030

**FLIGHT CONTROL SYS "A" SYS "B", AND STANDBY RUDDER CONTROL**

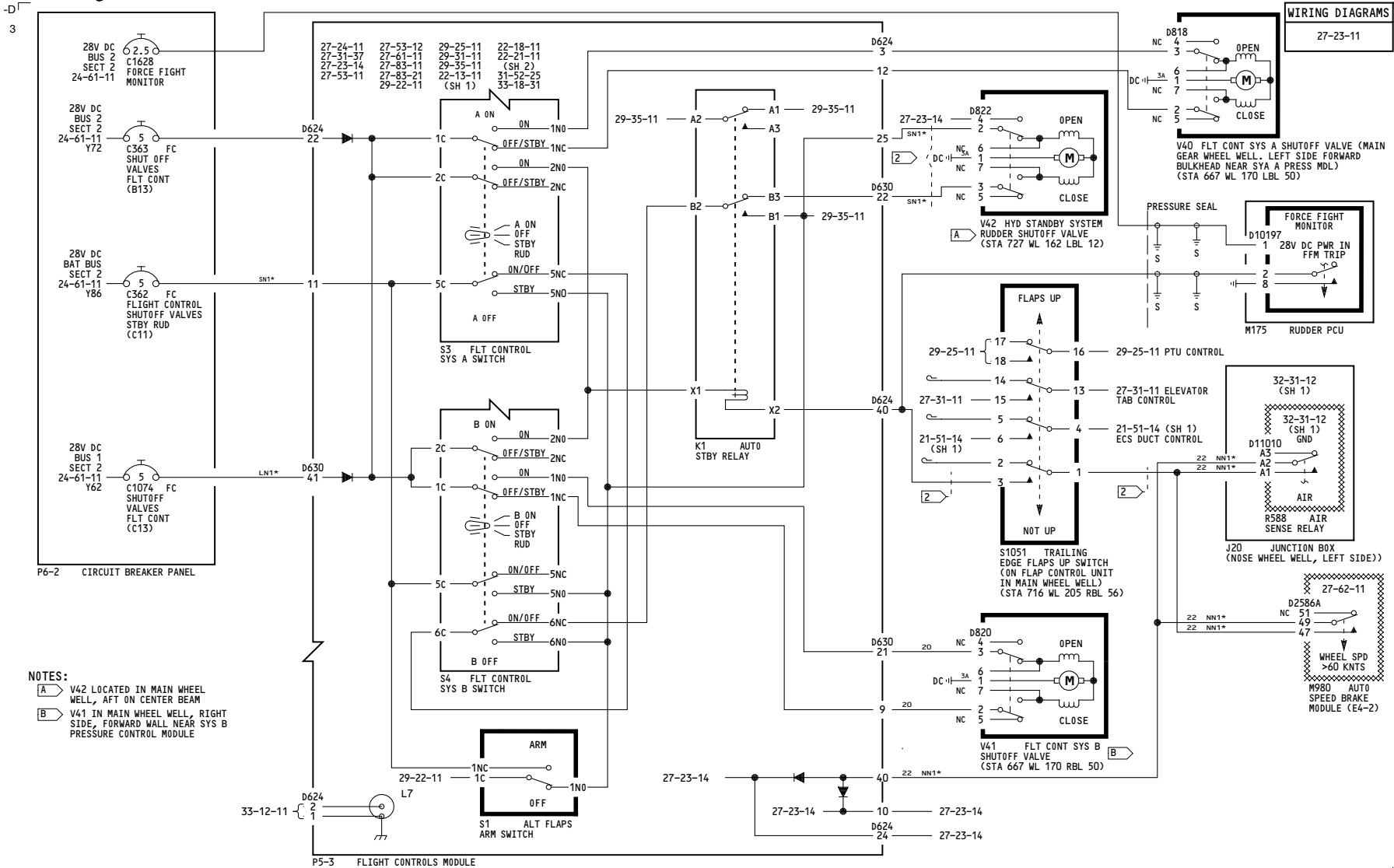
D280A203

Incorporates  
27-1253 R03

**27-23-11**

Page 102.1

Aug 13/2008



YC031-YK912, YK918-YK919, YL401-YL429, YM643-YM652

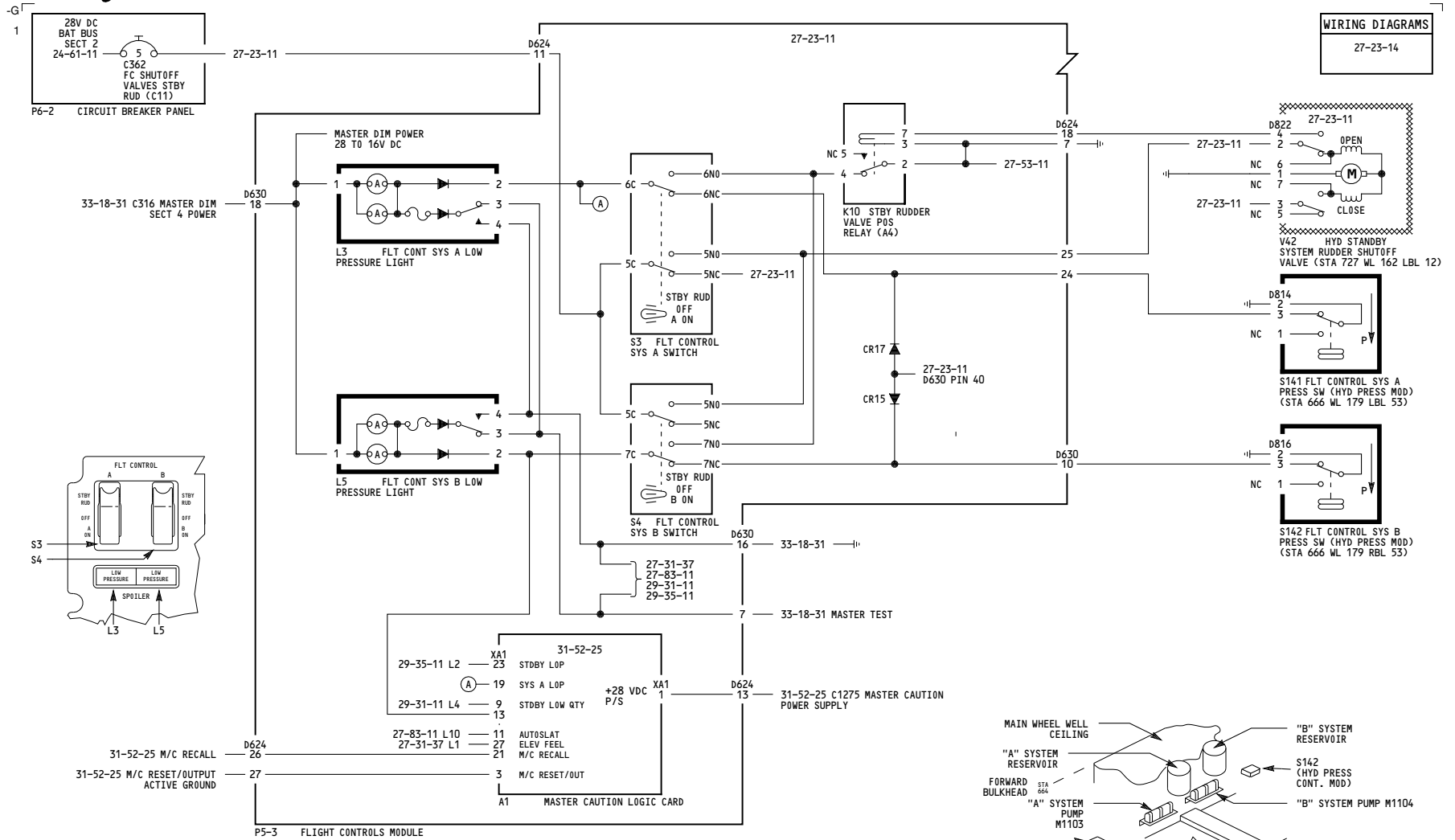
**FLIGHT CONTROL SYS "A",  
SYS "B", AND STANDBY  
RUDDER CONTROL**

D280A203

**27-23-11**

Page 103

May 11/2009



YC001-YC019

**FLIGHT CONTROL SYS "A"  
AND SYS "B" LOW PRESSURE  
INDICATION**

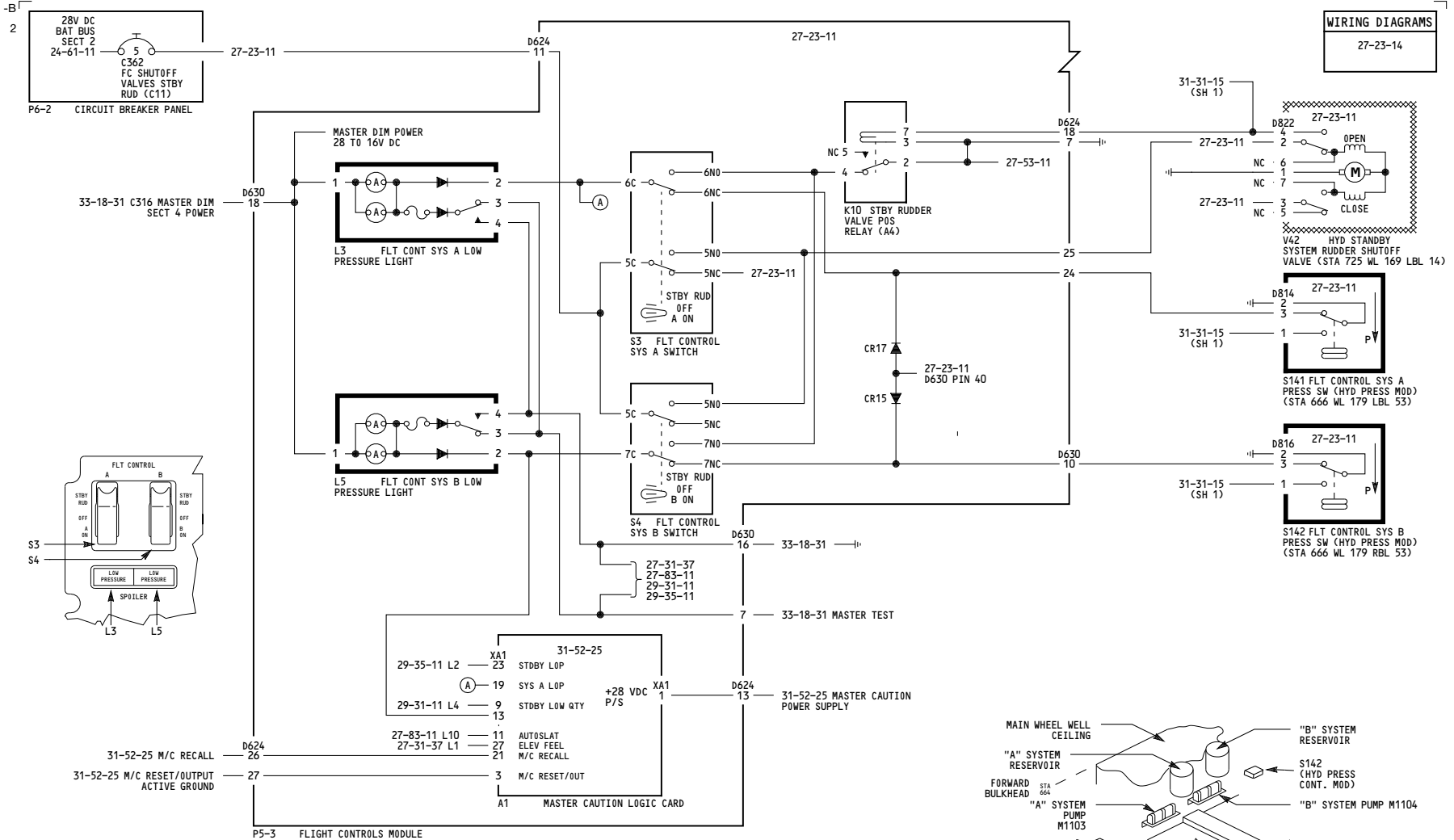
D280A203

**27-23-14**

Page 101

Mar 31/2005





YC020-YM670

**FLIGHT CONTROL SYS "A" AND SYS "B" LOW PRESSURE INDICATION**

D280A203

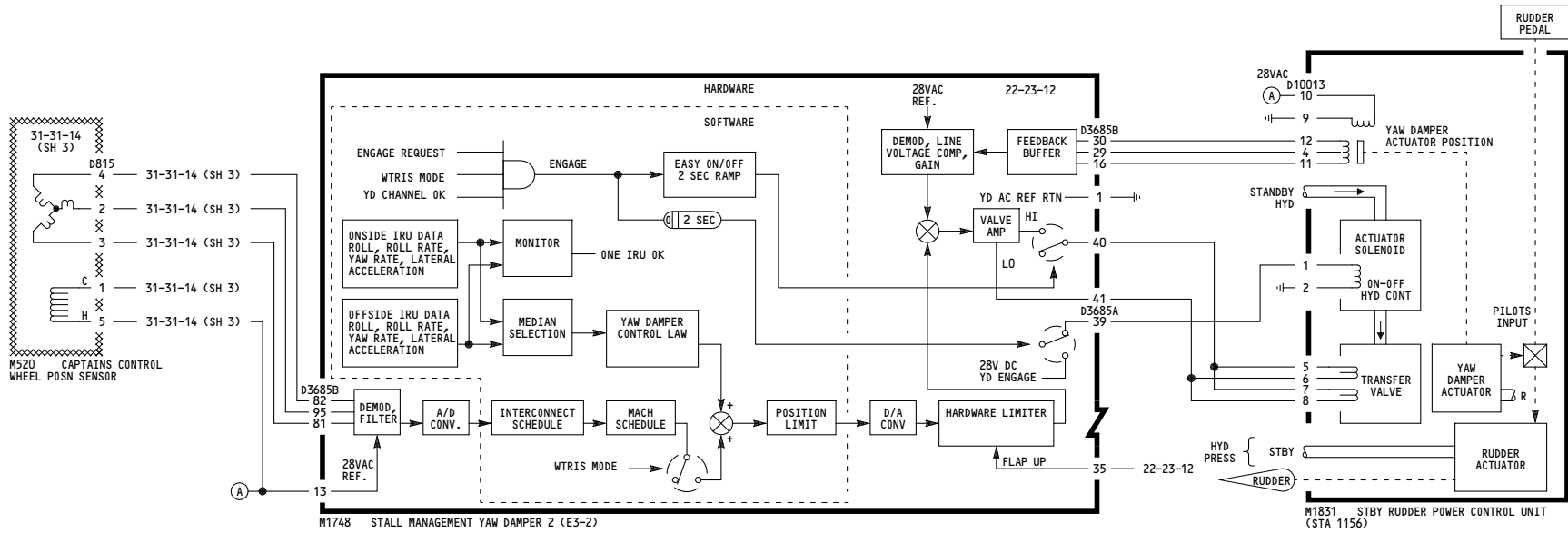
**27-23-14**

Page 102

Feb 09/2009

-F-  
1

WIRING DIAGRAMS  
27-24-11



ALL	<p align="center"><b>WHEEL TO RUDDER INTERCONNECT SYSTEM</b></p> <p align="center">D280A203</p>
-----	-----------------------------------------------------------------------------------------------------

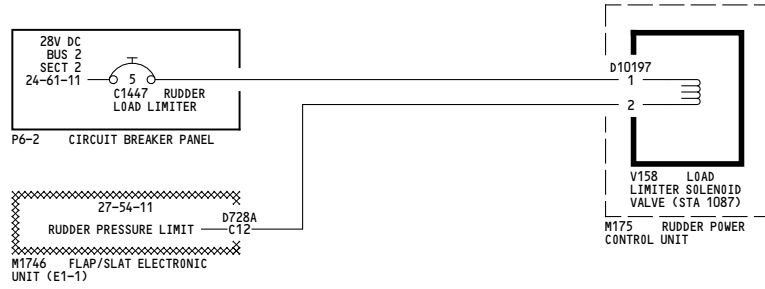
**27-24-11**

Page 101

Feb 09/2009

-E-  
1

WIRING DIAGRAMS  
27-25-11

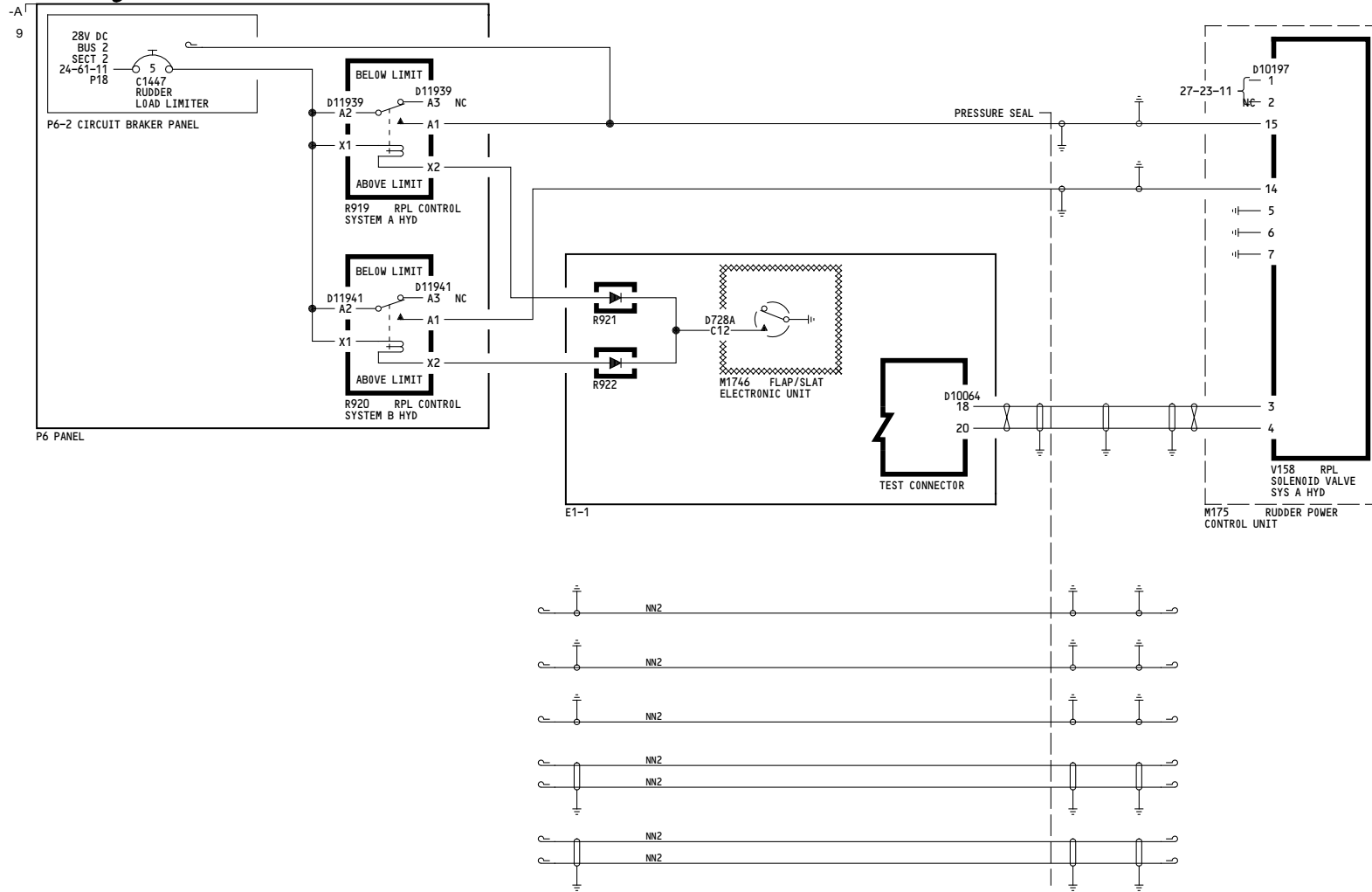


YC001-YC029	<p><b>RUDDER AUTHORITY LIMITER</b></p> <p>D280A203</p>
-------------	--------------------------------------------------------

**27-25-11**

Page 101

Jul 17/2007



<p>YC001-YC029</p>	<p><b>RUDDER AUTHORITY LIMITER</b></p> <p>D280A203</p>
--------------------	--------------------------------------------------------

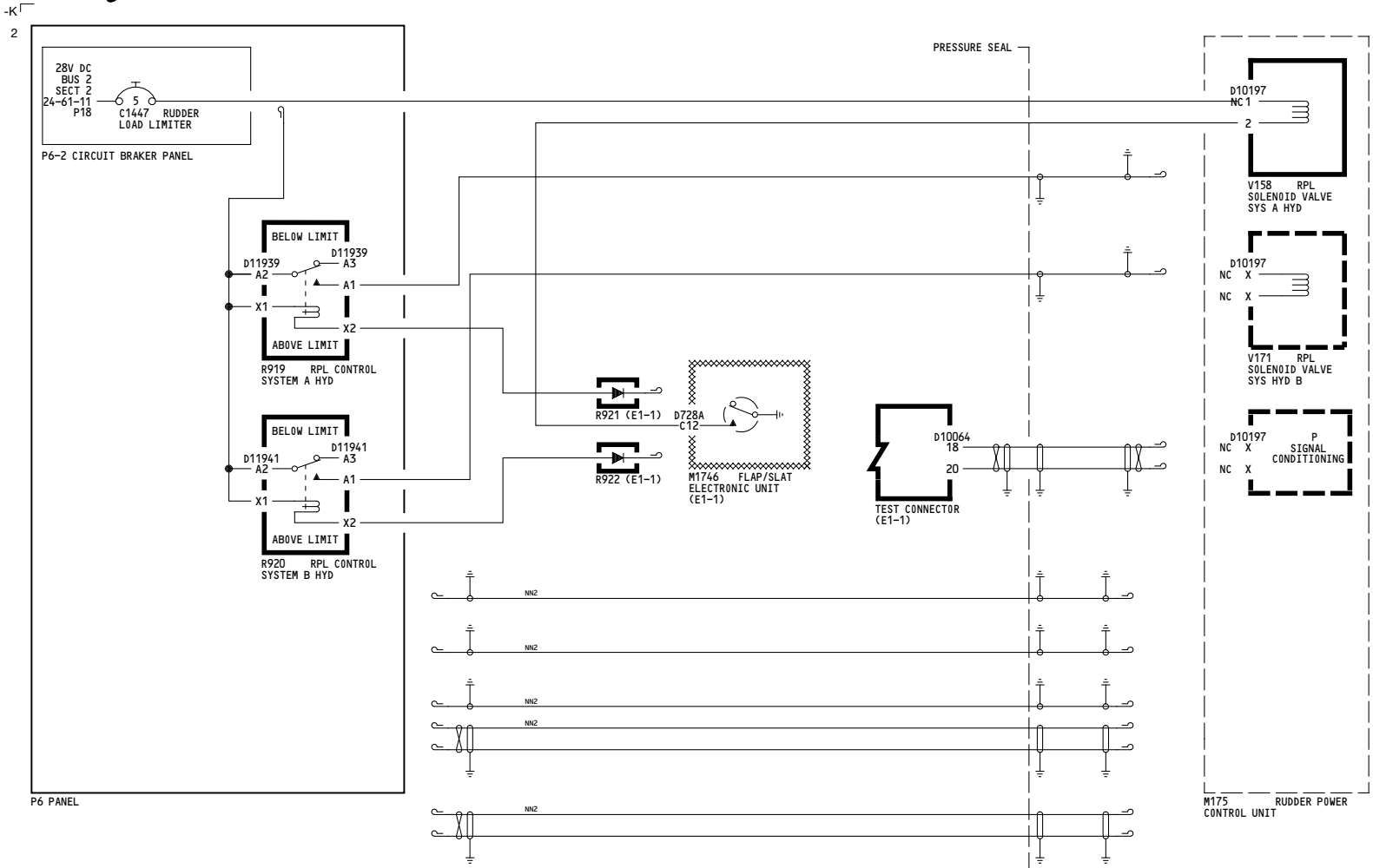
- Incorporates
- ▶ 27-1247
  - ▶ 27-1253 R03

**27-25-11**

Page 101.1

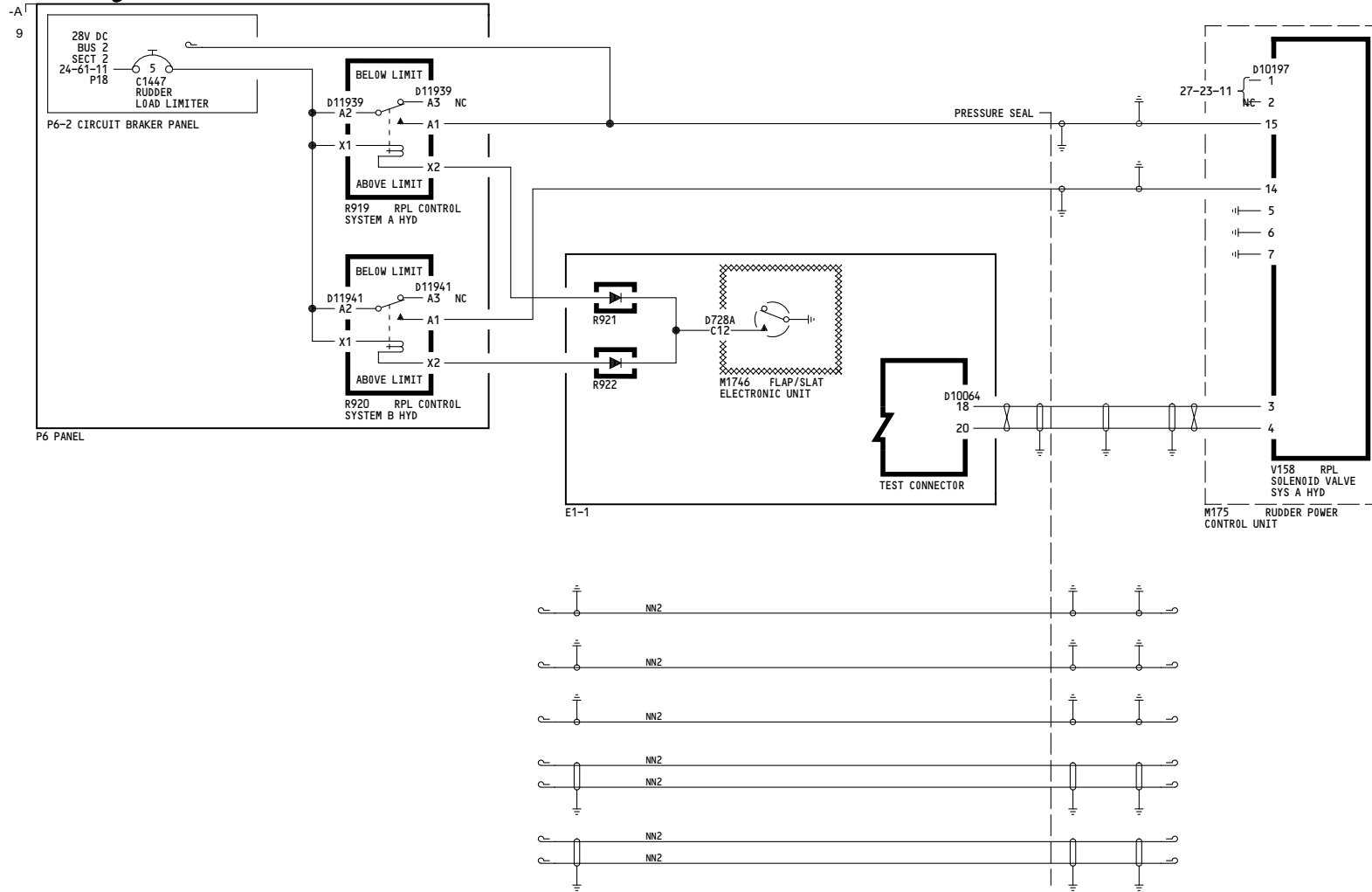
Aug 13/2008

**WIRING DIAGRAMS**  
27-25-11



<p>YC030</p>	<p><b>RUDDER AUTHORITY LIMITER</b></p> <p>D280A203</p>
--------------	--------------------------------------------------------

**27-25-11**



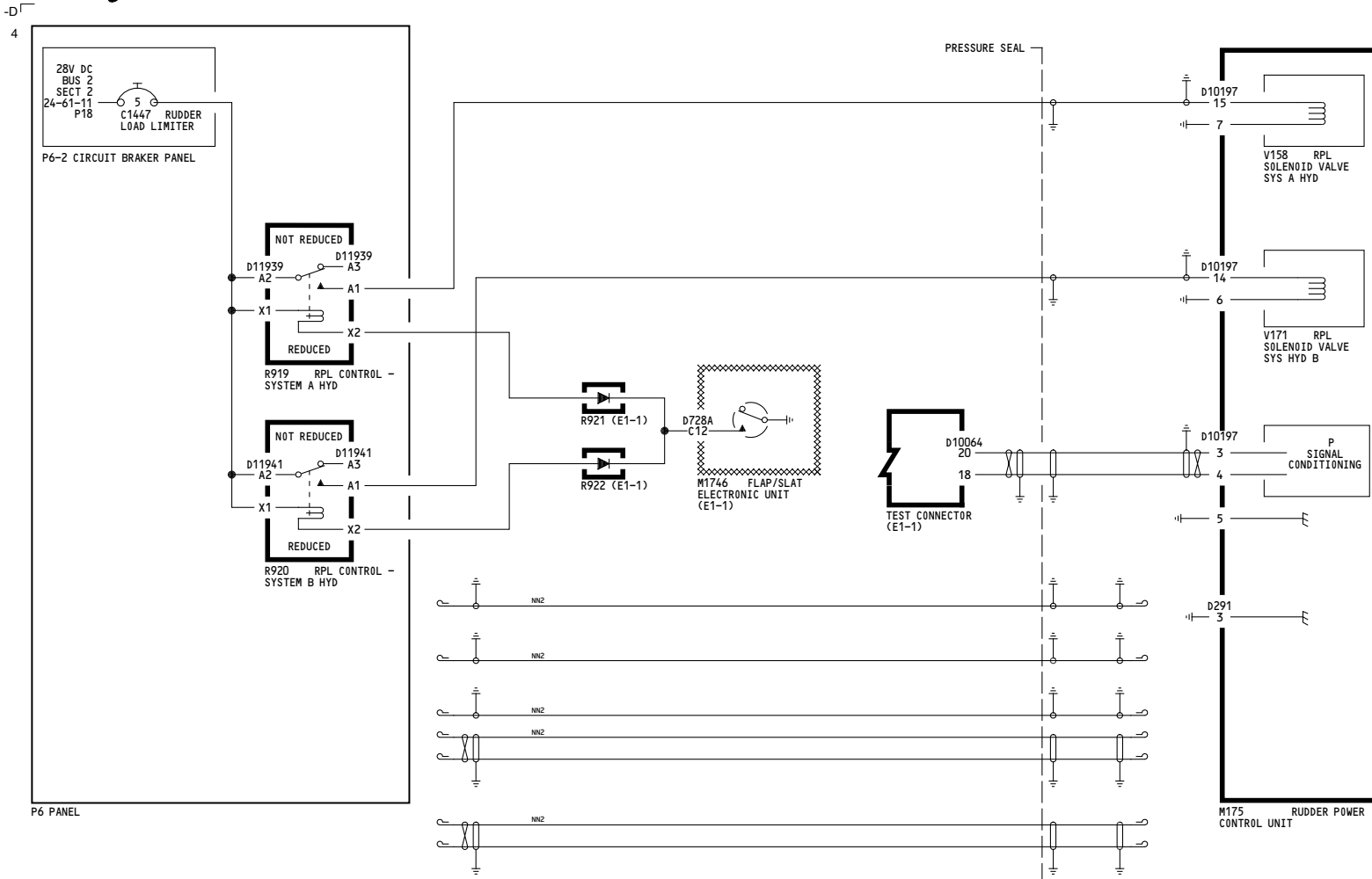
<p>YC030</p>	<p><b>RUDDER AUTHORITY LIMITER</b></p> <p>D280A203</p>
--------------	--------------------------------------------------------

Incorporates  
27-1253 R03

**27-25-11**

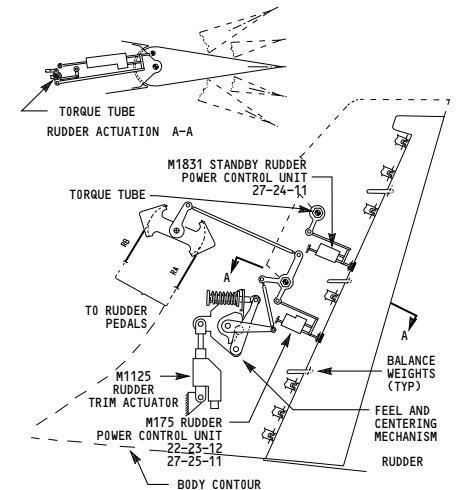
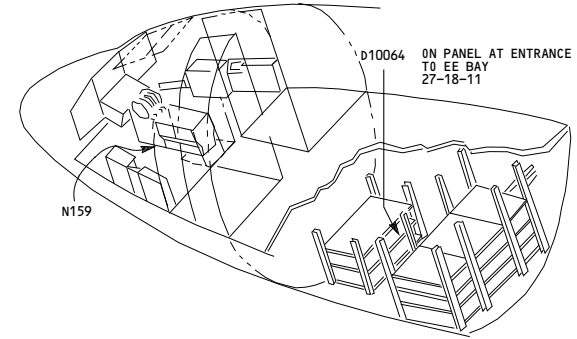
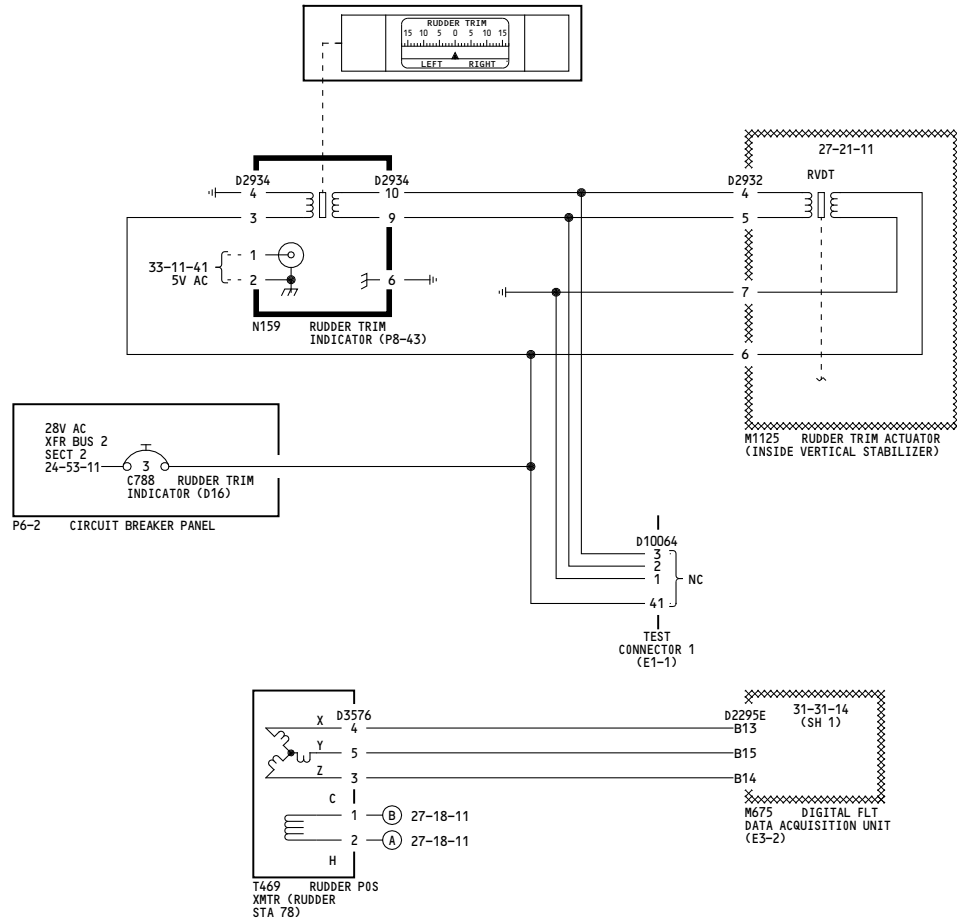
Page 102.1

Aug 13/2008



<p>YC031-YM670</p>	<p><b>RUDDER AUTHORITY LIMITER</b></p> <p>D280A203</p>
--------------------	--------------------------------------------------------

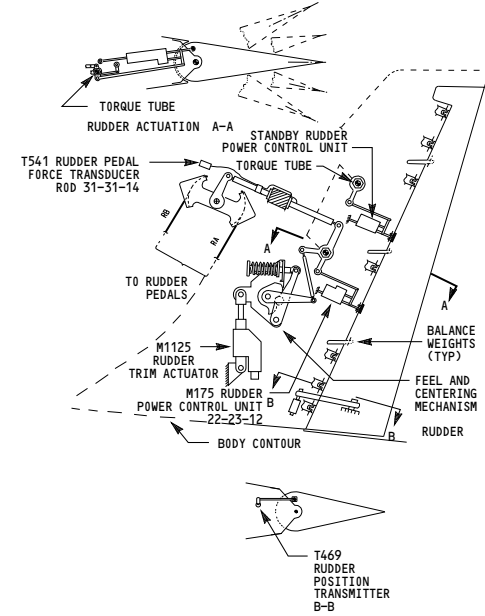
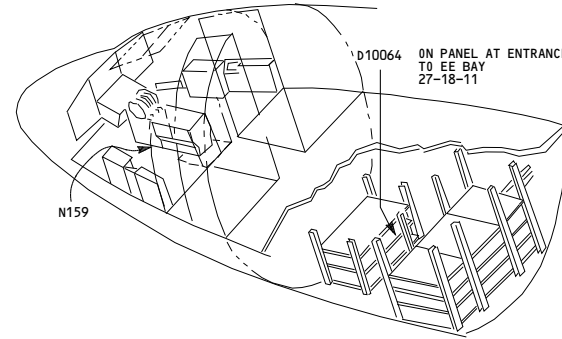
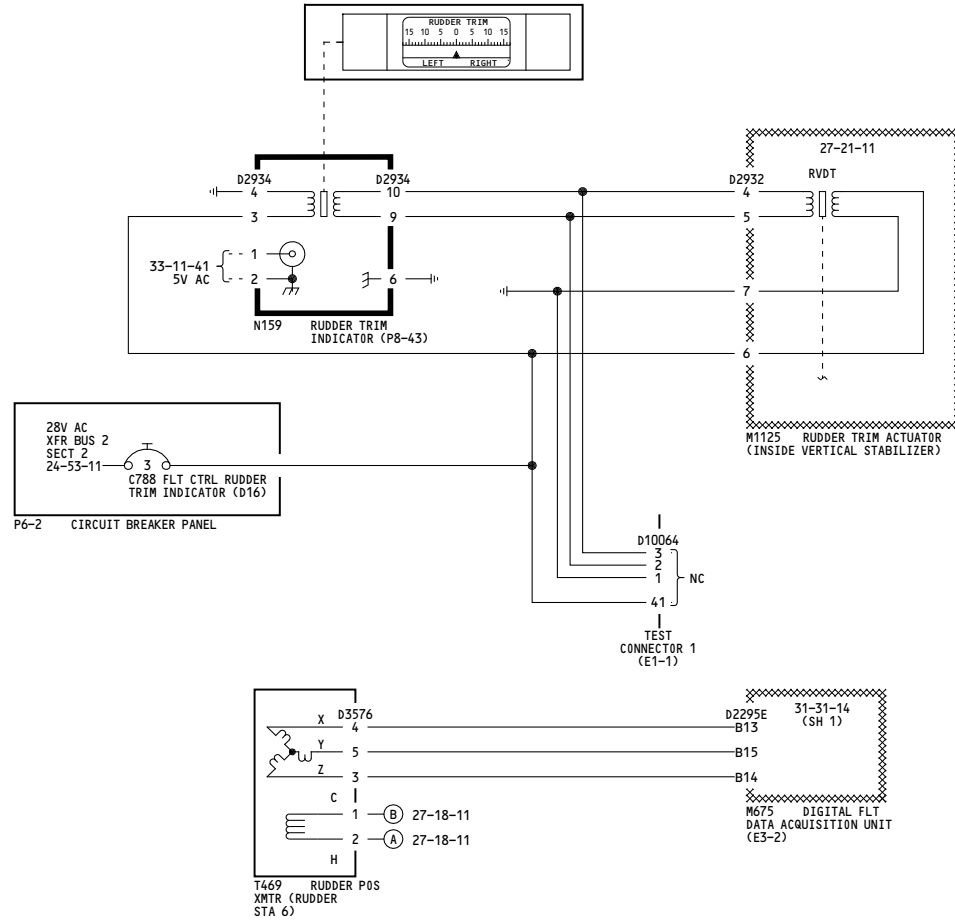
-N-  
1



<p>YC001-YC007</p>	<p><b>RUDDER TRIM AND POSITION INDICATION</b></p> <p>D280A203</p>
--------------------	-------------------------------------------------------------------



-D  
2



YC008-YM670

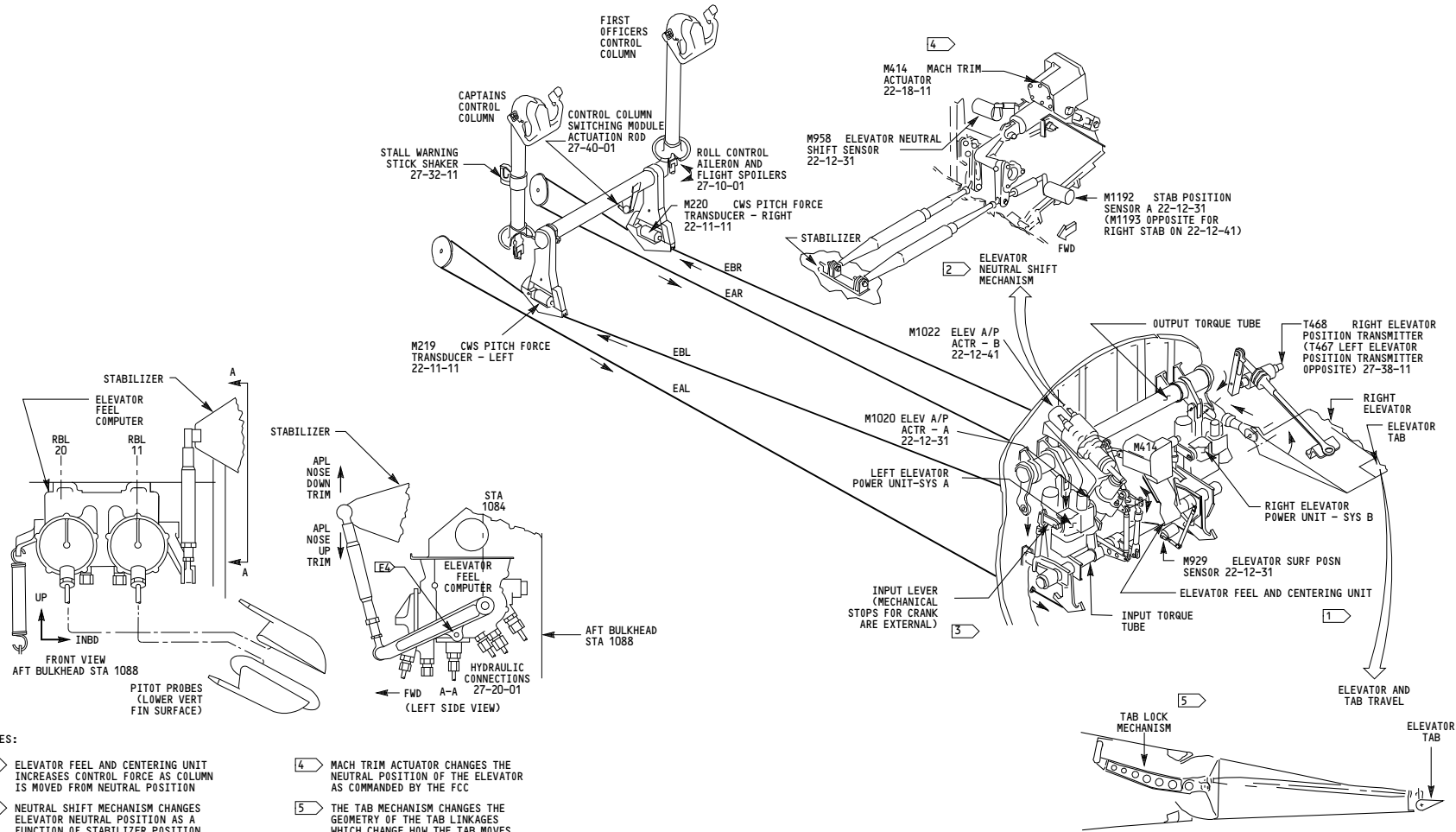
**RUDDER TRIM AND POSITION INDICATION**

D280A203

**27-28-11**

Page 102

Feb 09/2009



**NOTES:**

- 1 ELEVATOR FEEL AND CENTERING UNIT INCREASES CONTROL FORCE AS COLUMN IS MOVED FROM NEUTRAL POSITION
- 2 NEUTRAL SHIFT MECHANISM CHANGES ELEVATOR NEUTRAL POSITION AS A FUNCTION OF STABILIZER POSITION
- 3 FOR MANUAL REVERSION MODE, INPUT LEVER MOVES AGAINST THE MECHANICAL STOP. THE LEVER THEN WILL MOVE THE POWER UNIT. THE POWER UNIT MOVES THE ELEVATOR. THE ELEVATOR MOVES THE TAB

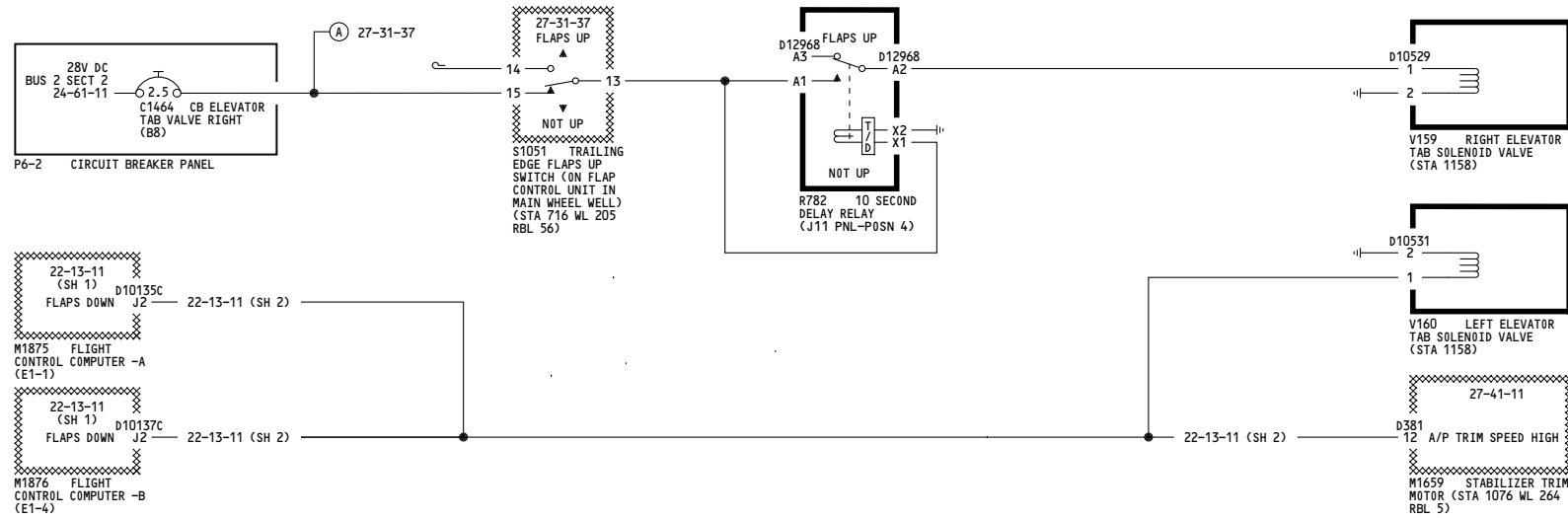
- 4 MACH TRIM ACTUATOR CHANGES THE NEUTRAL POSITION OF THE ELEVATOR AS COMMANDED BY THE FCC
- 5 THE TAB MECHANISM CHANGES THE GEOMETRY OF THE TAB LINKAGES WHICH CHANGE HOW THE TAB MOVES WHEN THE ELEVATOR MOVES

ALL	<b>ELEVATOR</b>
	D280A203

**27-30-01**

Page 101

Feb 09/2009



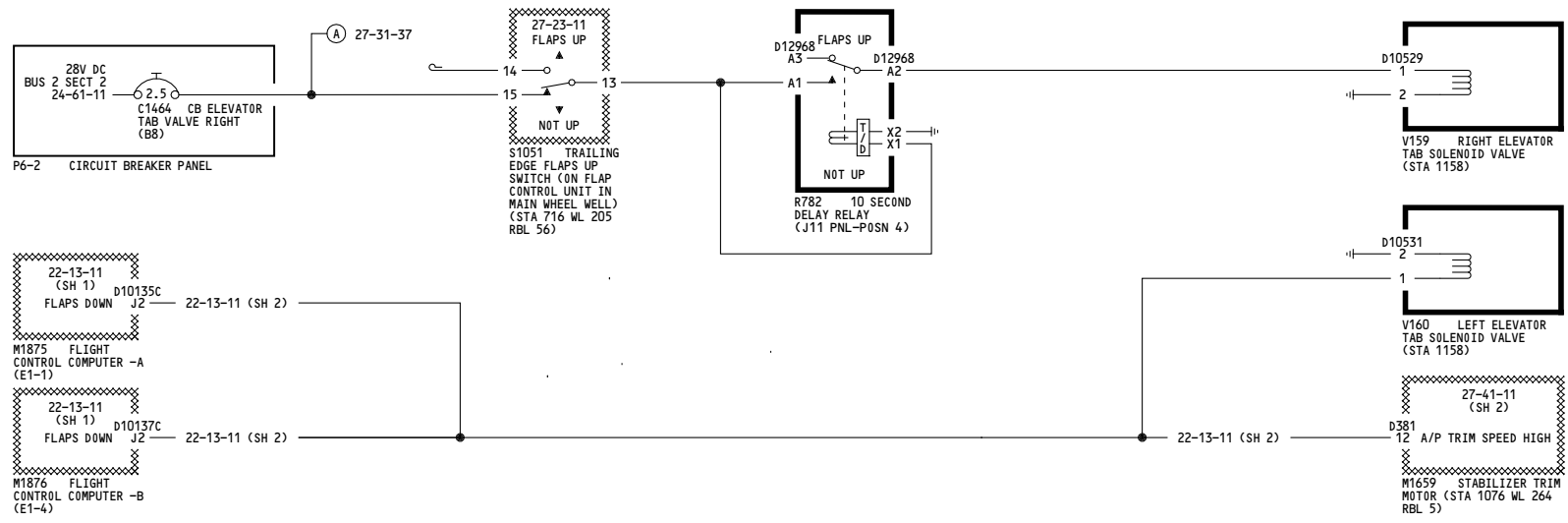
<p>YC001-YC007</p>	<p><b>ELEVATOR TAB CONTROL</b></p> <p style="text-align: center;">D280A203</p>
--------------------	--------------------------------------------------------------------------------

Incorporates  
27-1220

**27-31-11**

Page 101.1

Mar 31/2005

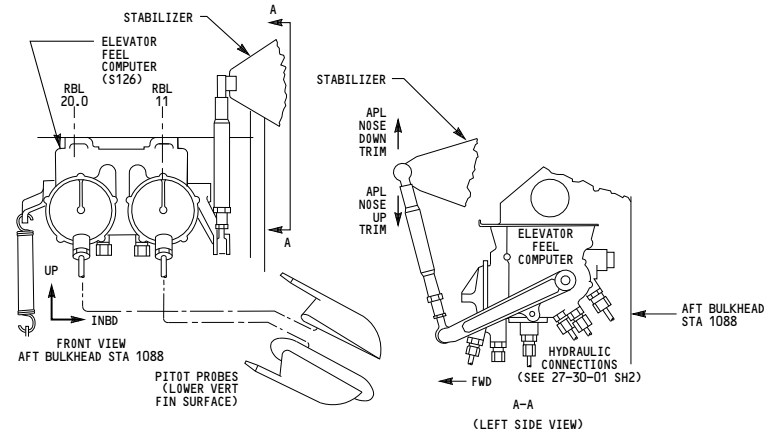
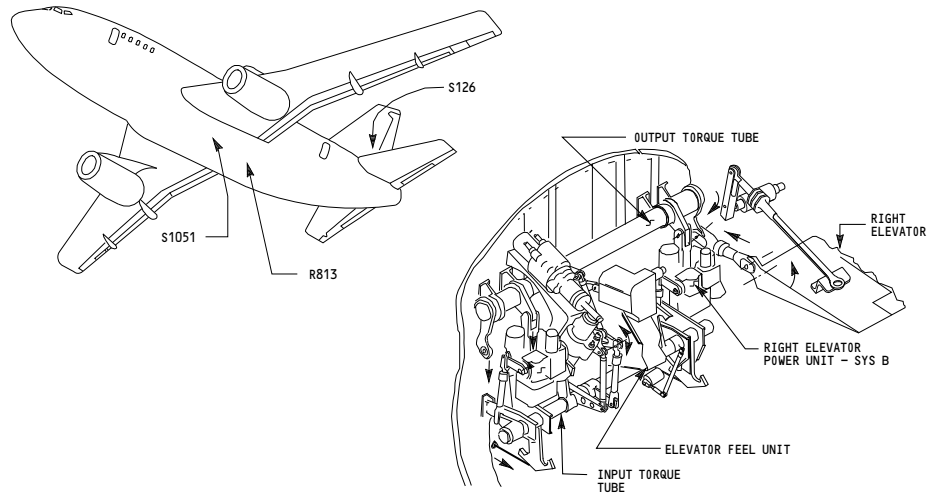
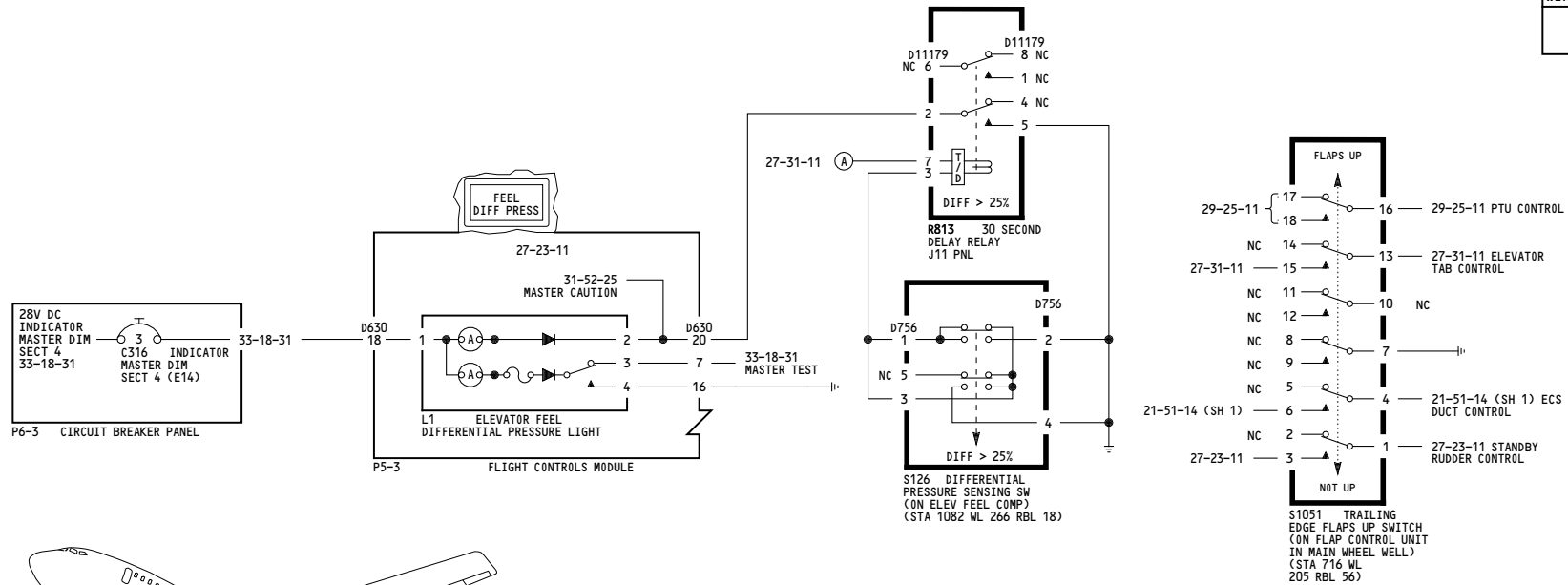


<p>YC008-YK912, YK918-YK919, YL401-YL429, YM643-YM652</p>	<p><b>ELEVATOR TAB CONTROL</b></p> <p>D280A203</p>
-----------------------------------------------------------	----------------------------------------------------

**27-31-11**

Page 102

May 11/2009



YC001-YC007	<b>ELEVATOR FEEL DIFFERENTIAL PRESSURE</b>
	D280A203

Incorporates 27-1220

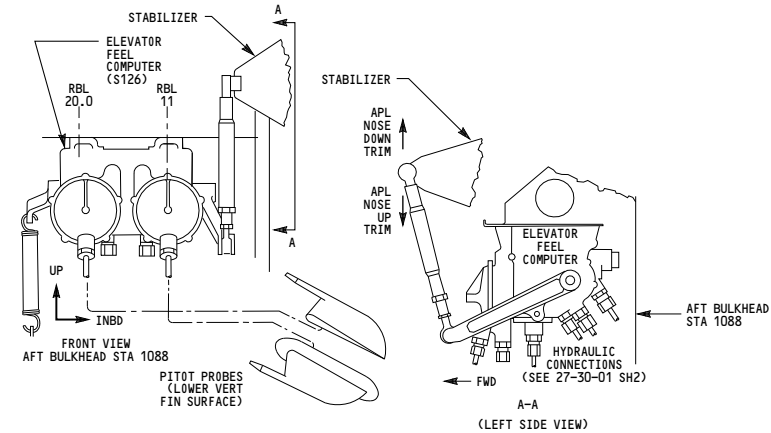
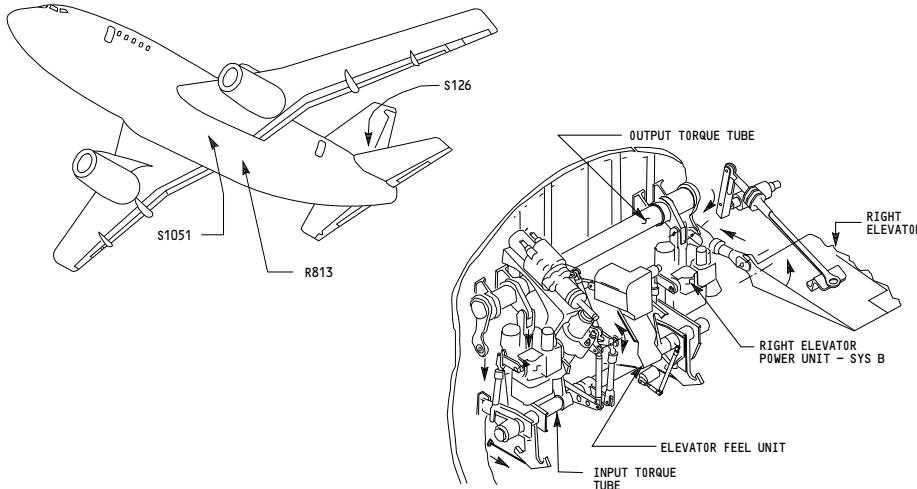
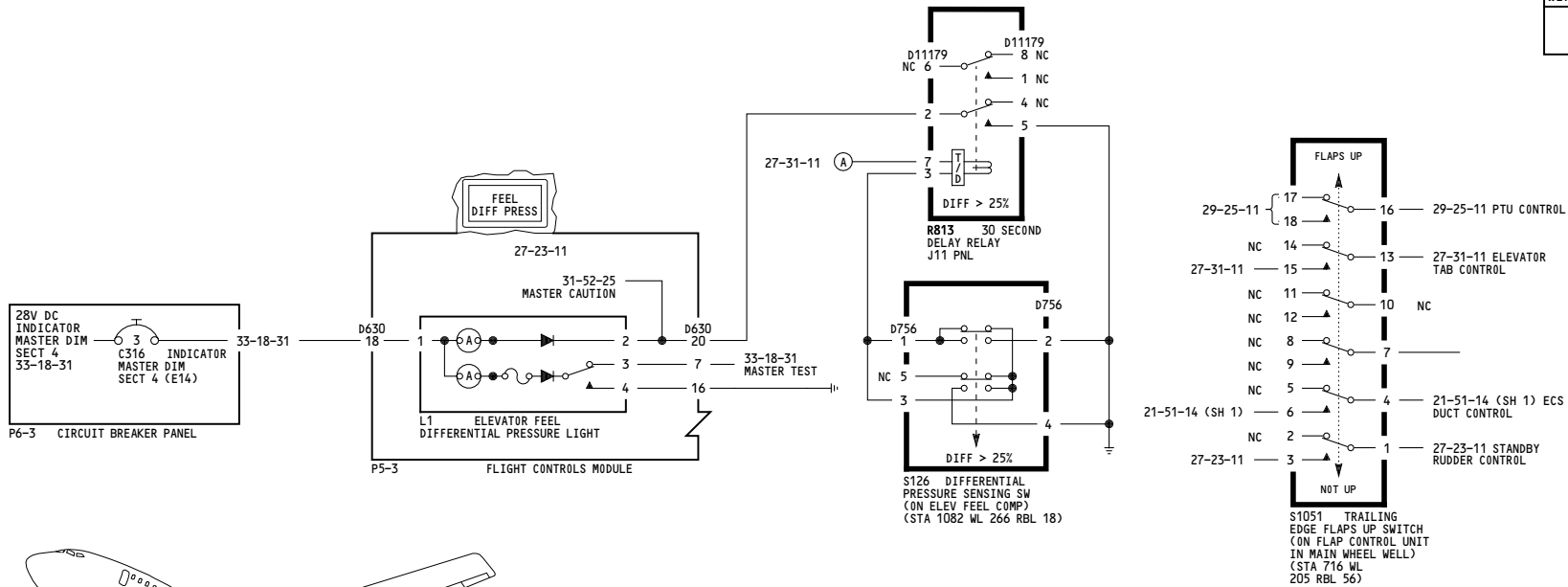
**27-31-37**

Page 101.1

Mar 31/2005

-A  
2

WIRING DIAGRAMS  
27-31-11  
27-31-37



YC008-YK912, YK918-YK919, YL401-YL429, YM643-YM652

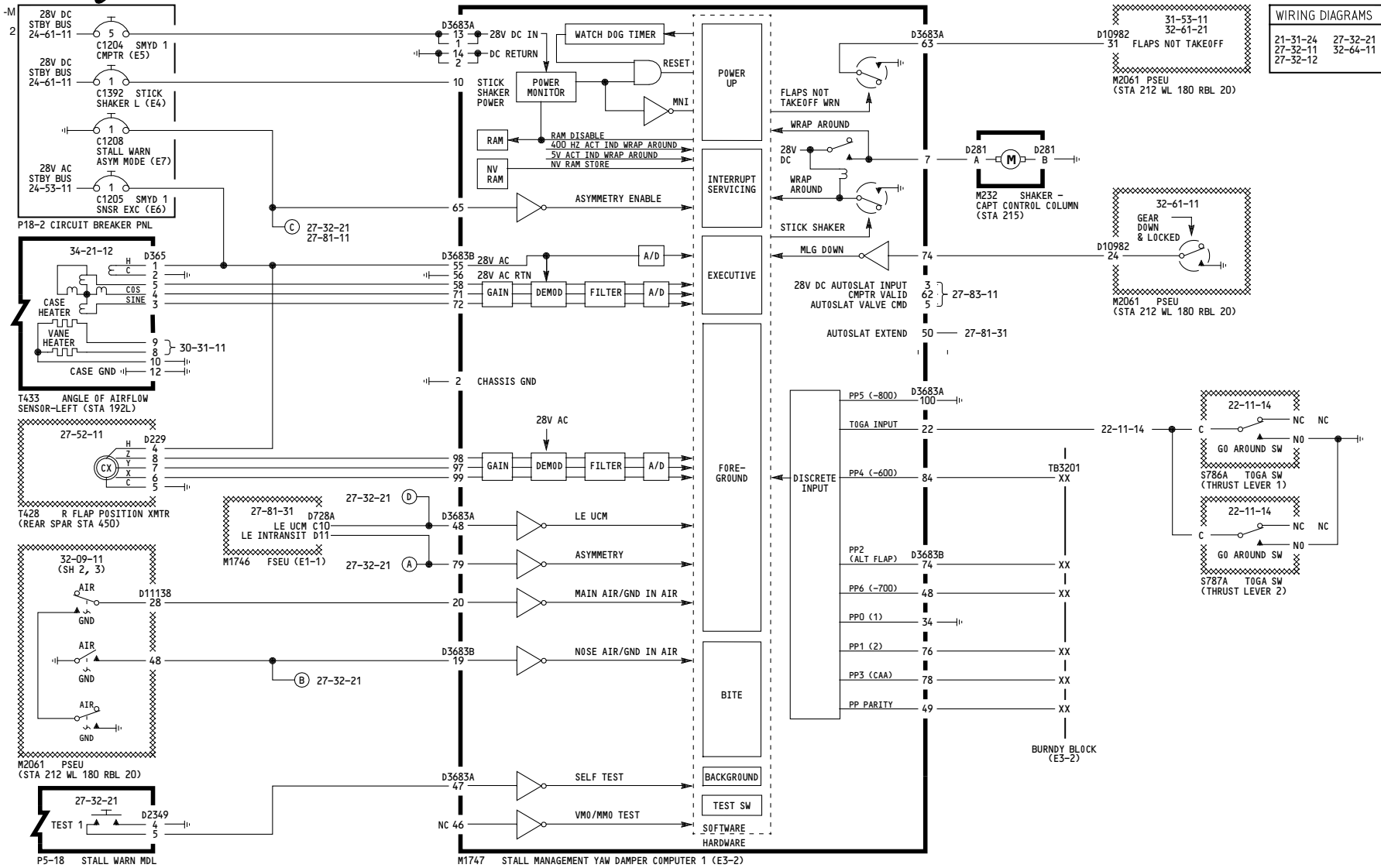
**ELEVATOR FEEL DIFFERENTIAL PRESSURE**

D280A203

**27-31-37**

Page 102

May 11/2009



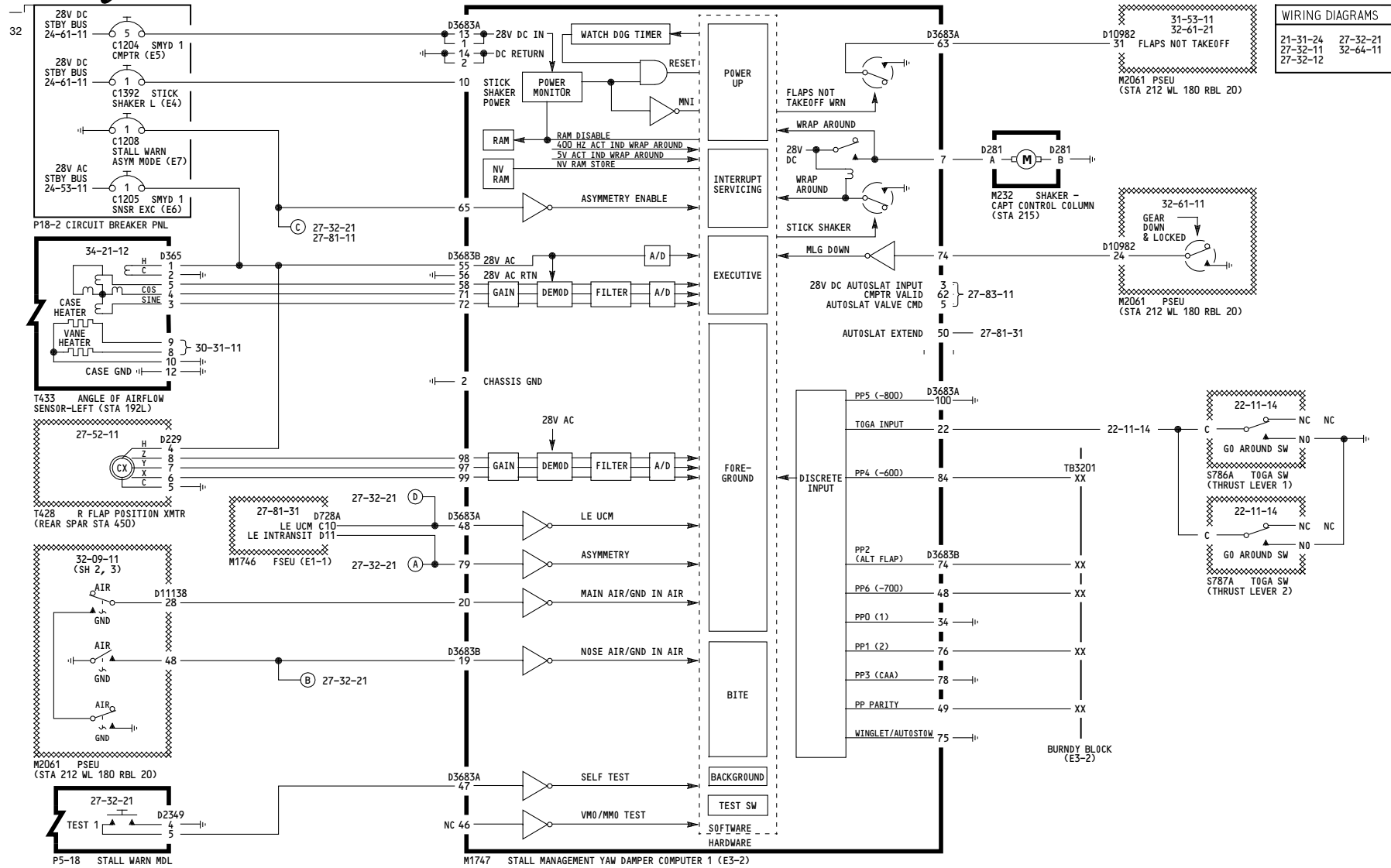
WIRING DIAGRAMS	
21-31-24	27-32-21
27-32-11	32-64-11
27-32-12	

YC001-YK906

**STALL WARNING SYSTEM 1  
POWER AND ANALOGS**

D280A203

**27-32-11**



WIRING DIAGRAMS	
21-31-24	27-32-21
27-32-11	32-64-11
27-32-12	

YC001-YC010, YC012-YC025

**STALL WARNING SYSTEM 1  
POWER AND ANALOGS**

D280A203

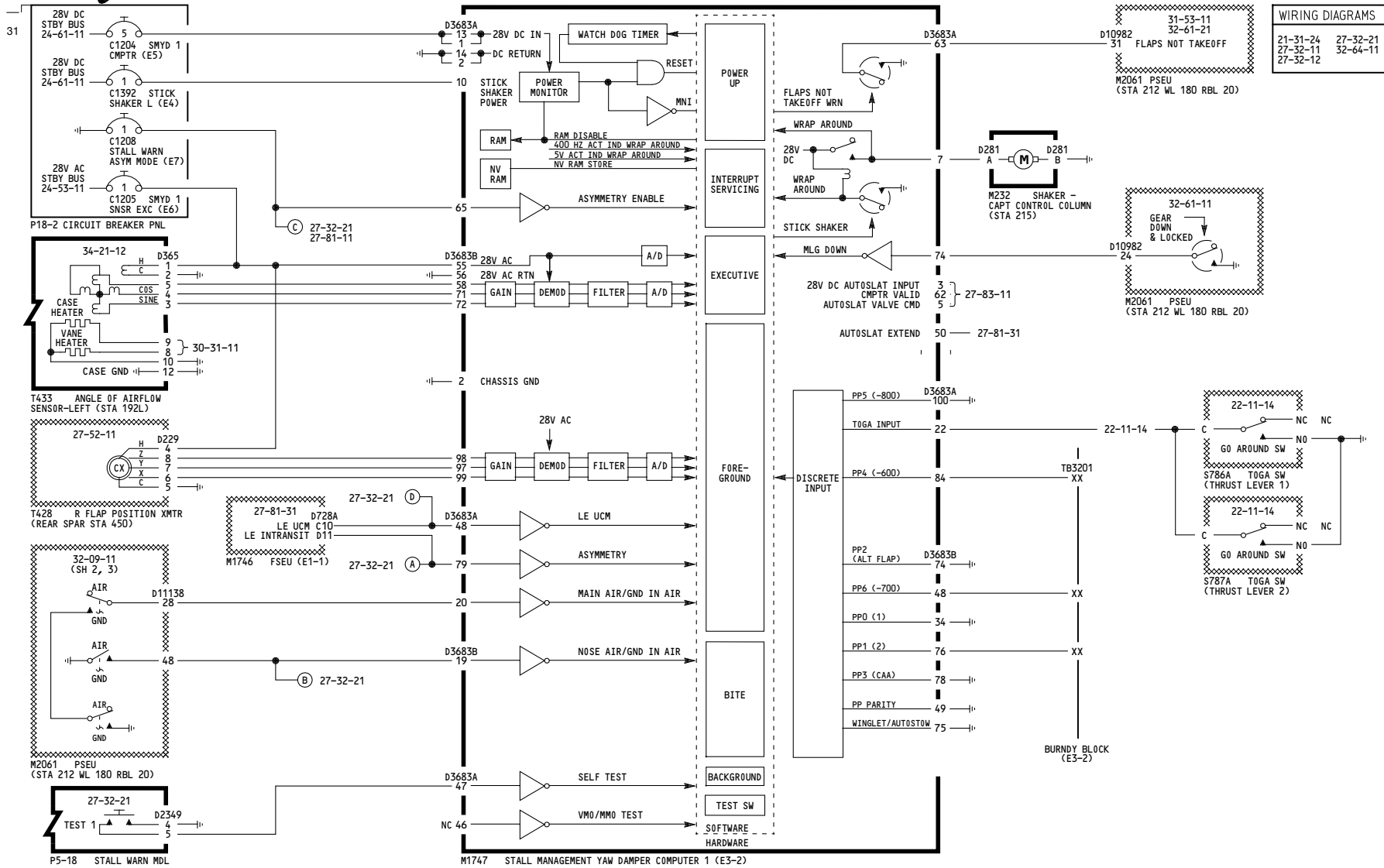
Incorporates  
PD 0802664

**27-32-11**

Page 101.1

May 13/2008





WIRING DIAGRAMS	
21-31-24	27-32-21
27-32-11	32-64-11
27-32-12	

YC026-YC030

**STALL WARNING SYSTEM 1  
POWER AND ANALOGS**

Incorporates  
PD 0802664

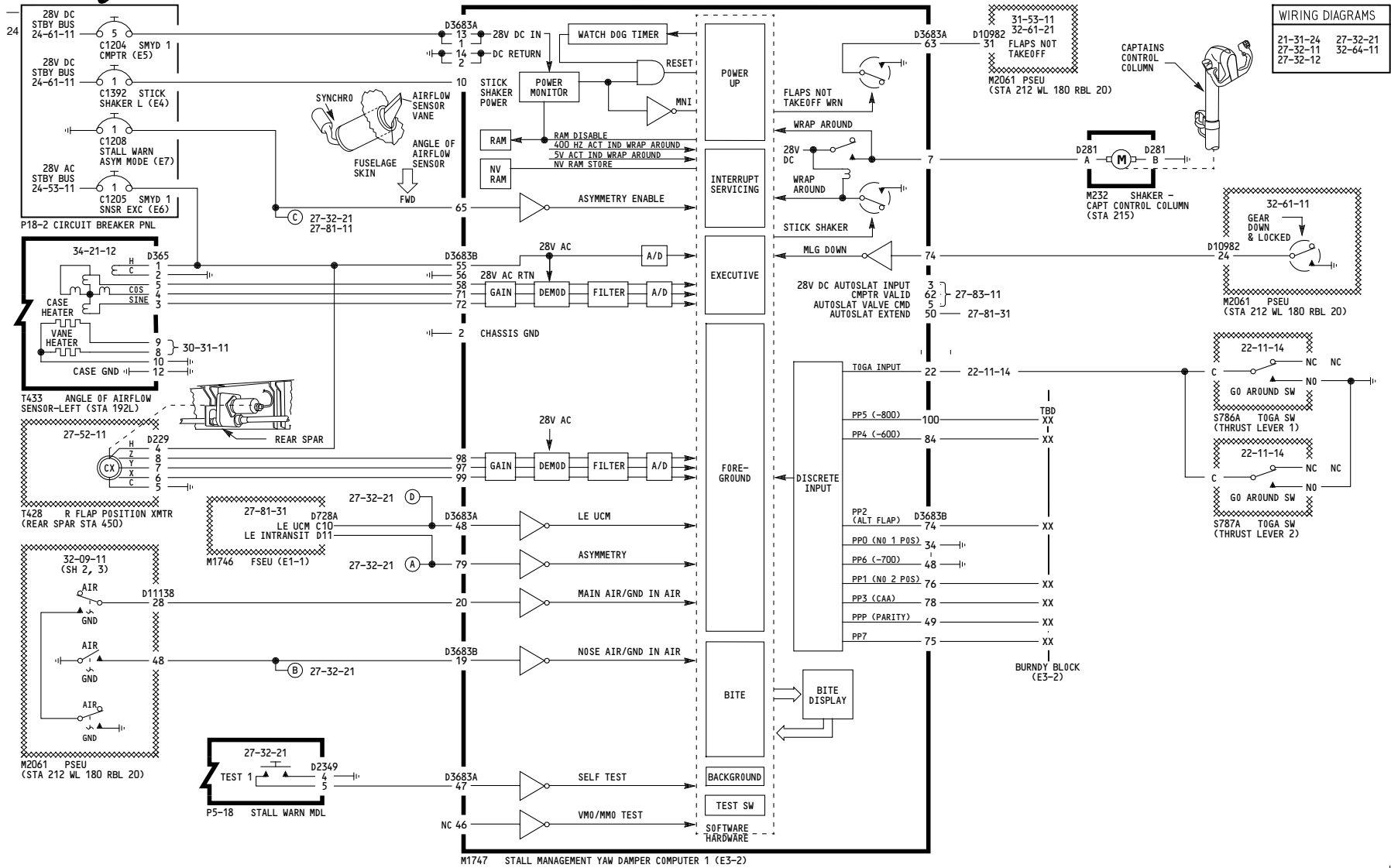
D280A203

**27-32-11**

Page 101.2

May 13/2008





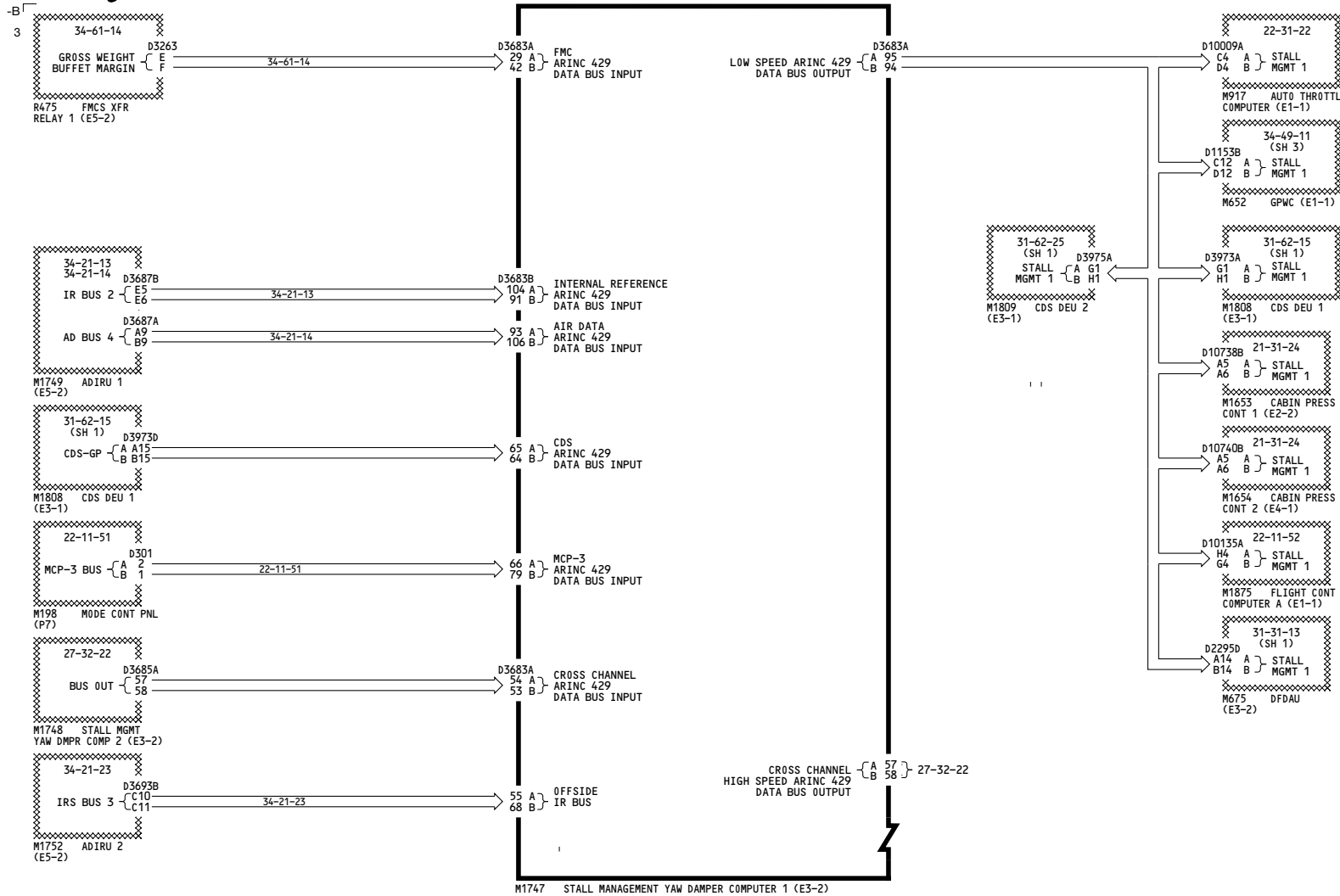
WIRING DIAGRAMS	
21-31-24	27-32-21
27-32-11	32-64-11
27-32-12	

YM643-YM670

**STALL WARNING SYSTEM 1  
POWER AND ANALOGS**

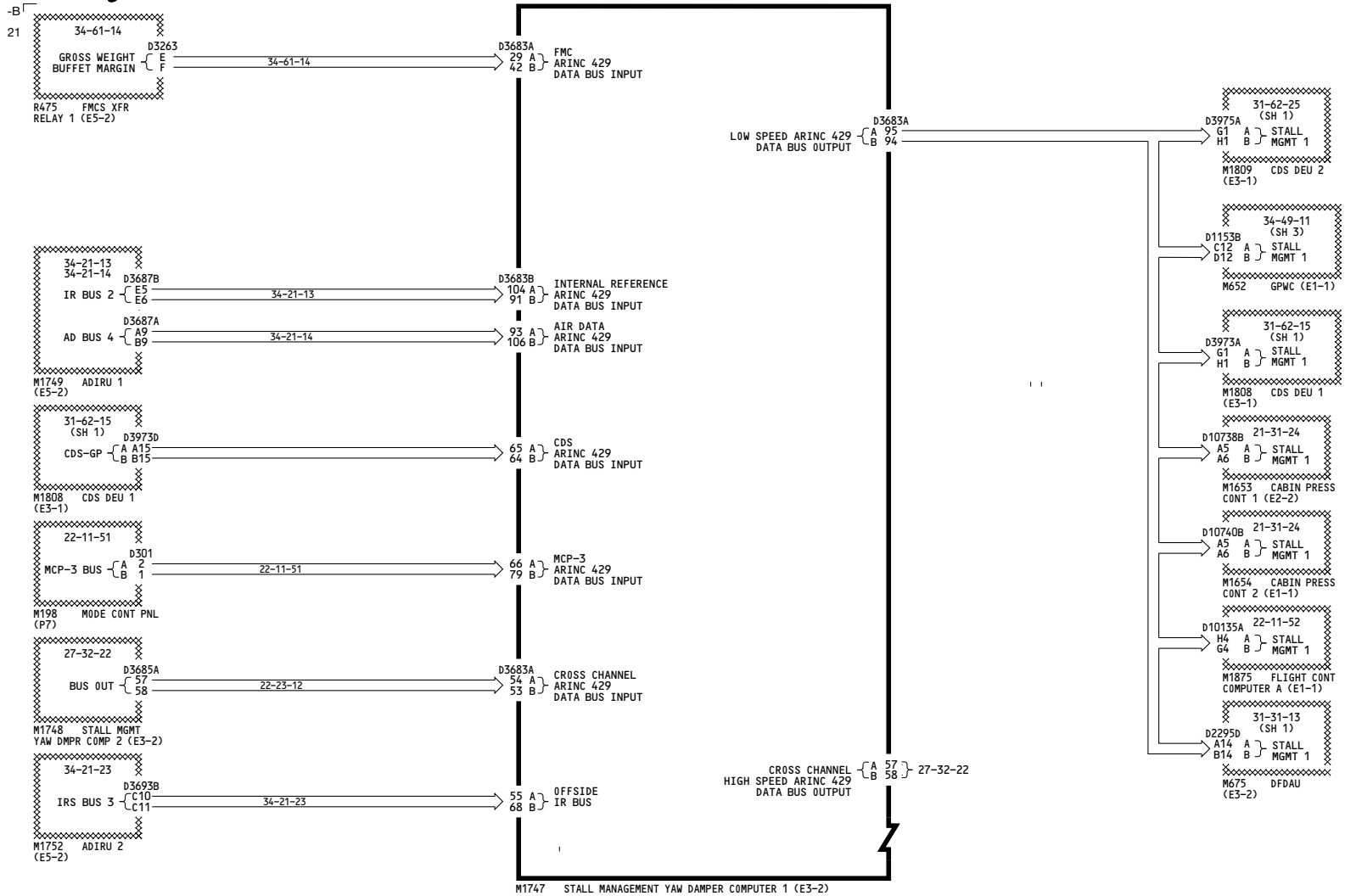
D280A203

WIRING DIAGRAMS			
21-31-24	27-32-11		
27-32-12	27-32-21		
27-31-22	30-31-01		
31-31-12	31-31-52		
32-64-01	32-64-11		
34-64-12	34-49-02		



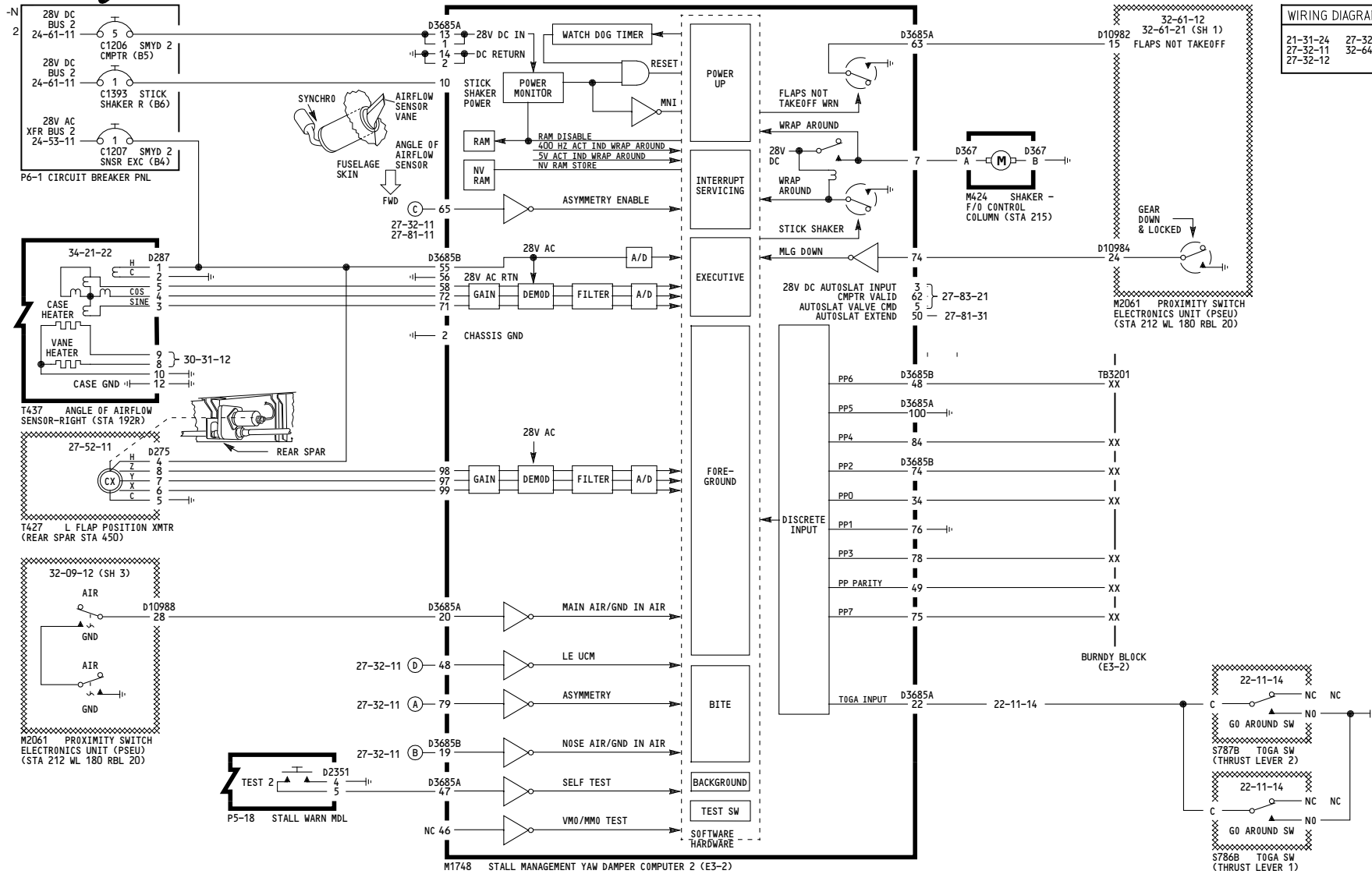
YC001-YC030	<p><b>STALL WARNING SYSTEM 1 DIGITAL INTERFACE</b></p> <p>D280A203</p>
-------------	----------------------------------------------------------------------------

WIRING DIAGRAMS	
21-31-24	27-32-11
27-32-12	27-32-21
27-31-22	30-31-01
31-31-12	31-31-52
32-64-01	32-64-11
34-64-12	34-49-02



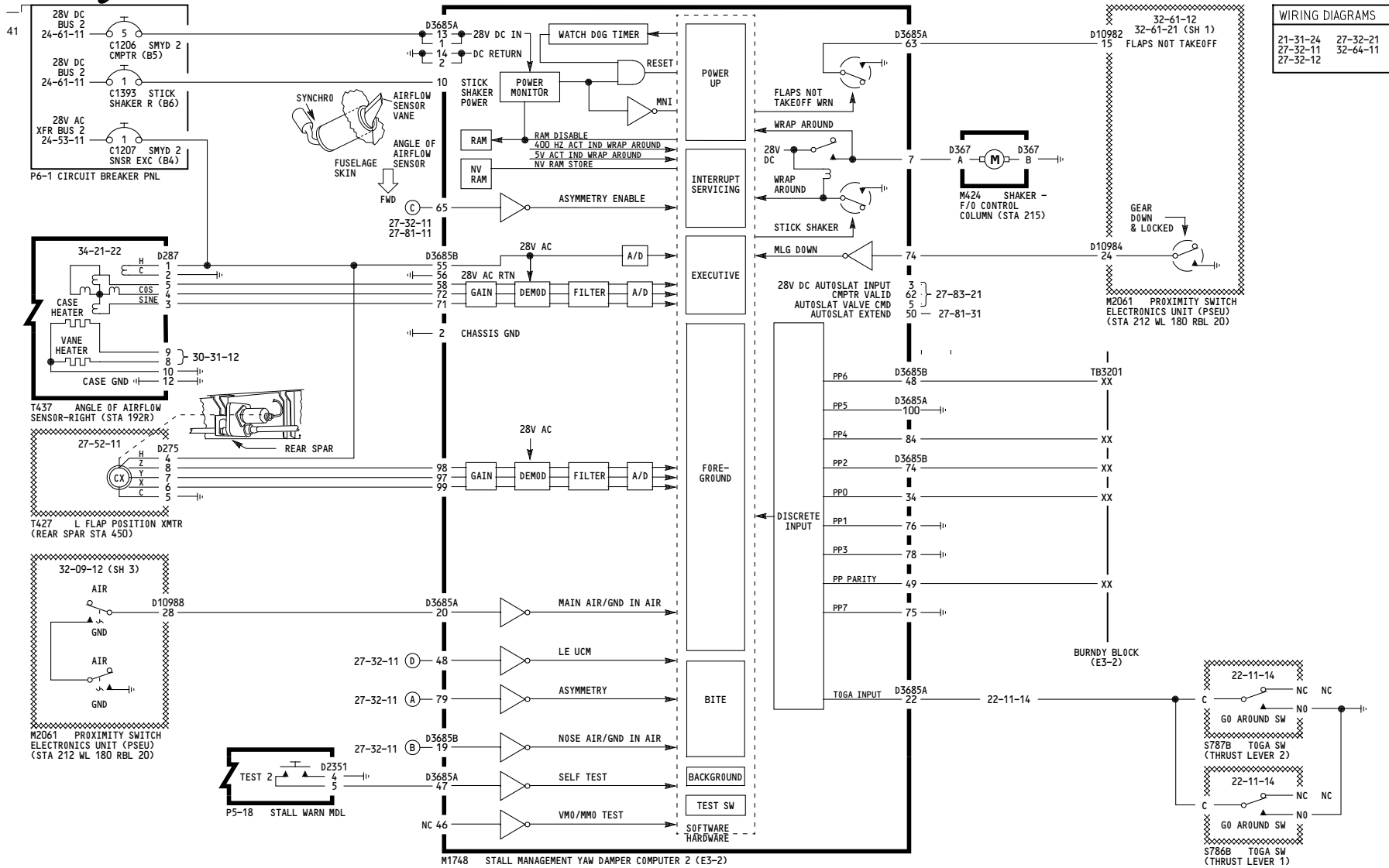
YC031-YM670	<p><b>STALL WARNING SYSTEM 1 DIGITAL INTERFACE</b></p> <p>D280A203</p>
-------------	----------------------------------------------------------------------------

WIRING DIAGRAMS	
21-31-24	27-32-21
27-32-11	32-64-11
27-32-12	



YC001-YK906	<p><b>STALL WARNING SYSTEM 2 POWER AND ANALOGS</b></p> <p style="font-size: 24px; font-weight: bold;">D280A203</p>
-------------	------------------------------------------------------------------------------------------------------------------------

**27-32-21**



WIRING DIAGRAMS	
21-31-24	27-32-21
27-32-11	32-64-11
27-32-12	

YC001-YC010, YC012-YC025

**STALL WARNING SYSTEM 2  
POWER AND ANALOGS**

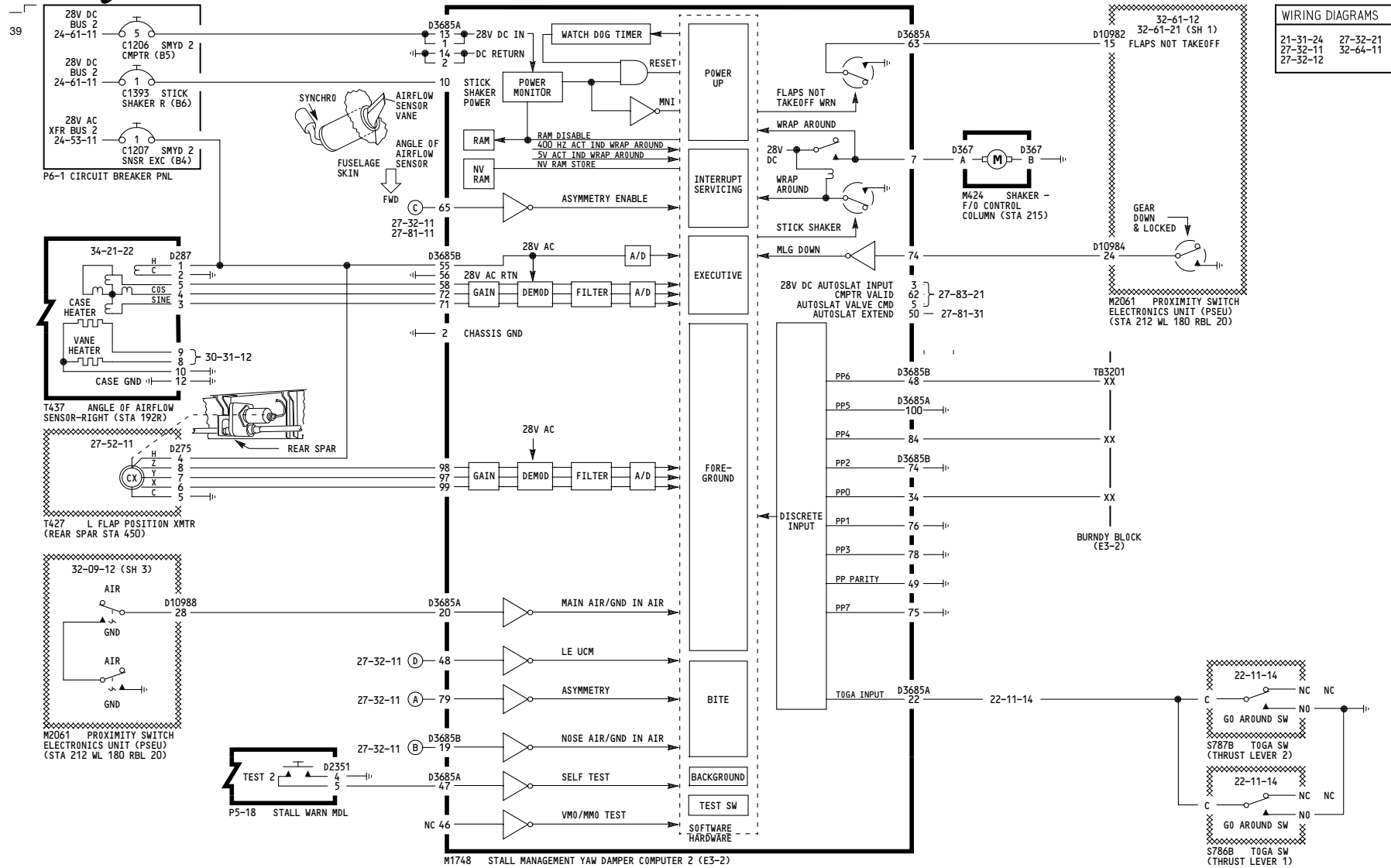
Incorporates  
PD 0802664

D280A203

**27-32-21**

Page 101.1

May 13/2008



WIRING DIAGRAMS	
21-31-24	27-32-21
27-32-11	32-64-11
27-32-12	

YC026-YC030

**STALL WARNING SYSTEM 2  
POWER AND ANALOGS**

Incorporates  
PD 0802664

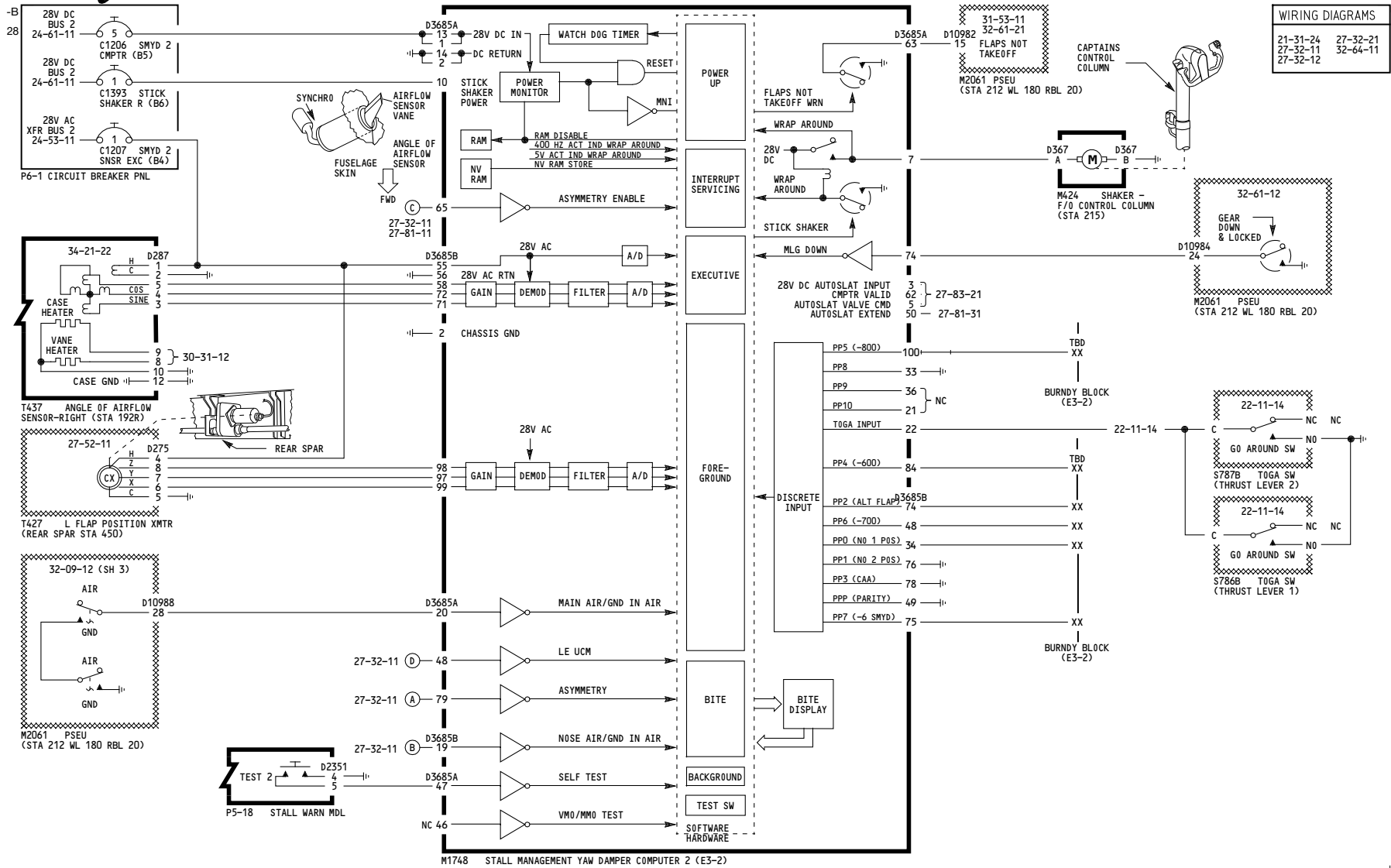
D280A203

**27-32-21**

Page 101.2

May 13/2008





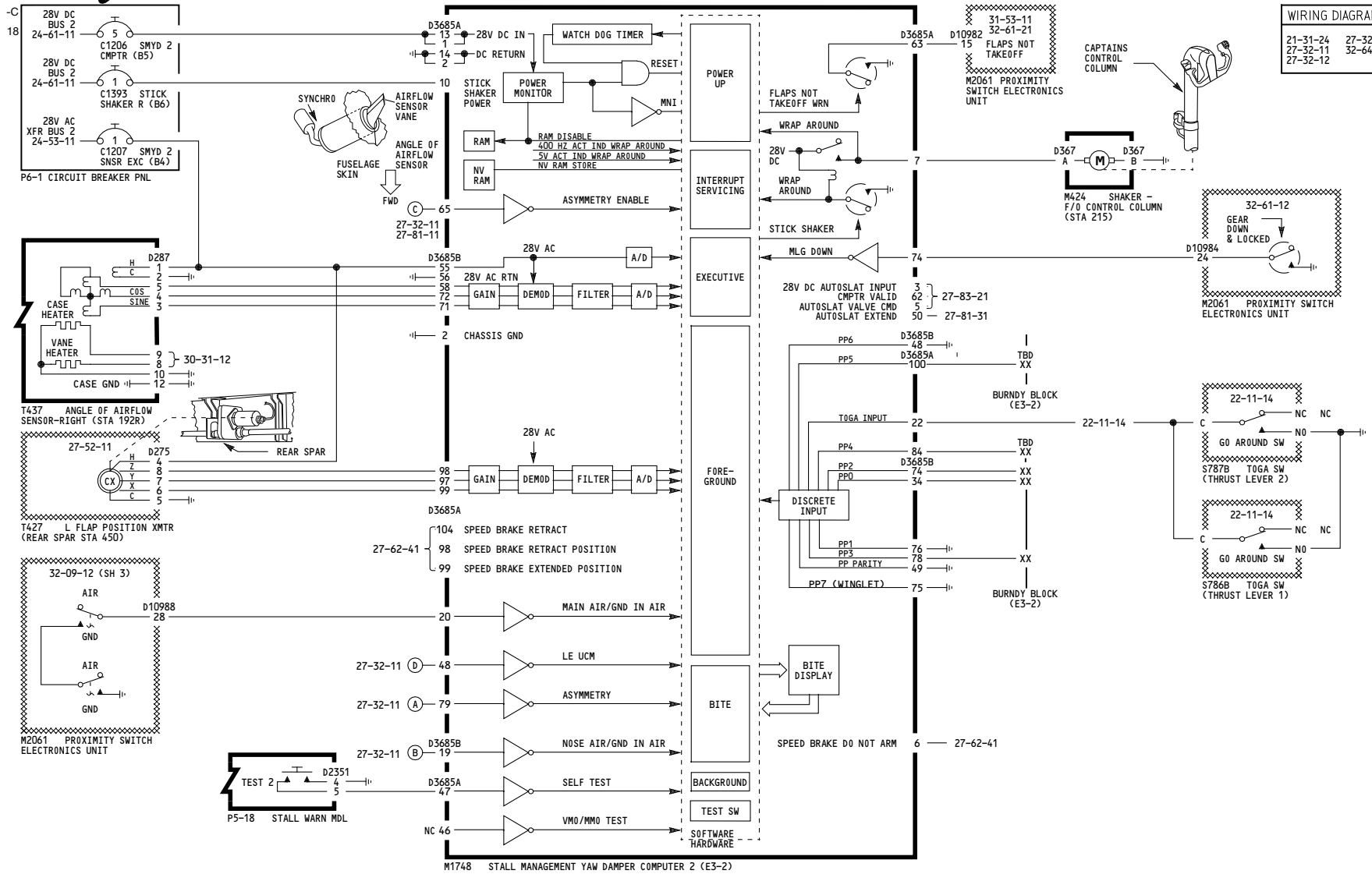
YK907-YL430

**STALL WARNING SYSTEM 2  
POWER AND ANALOGS**

D280A203

**27-32-21**

WIRING DIAGRAMS	
21-31-24	27-32-21
27-32-11	32-64-11
27-32-12	



YM643-YM670

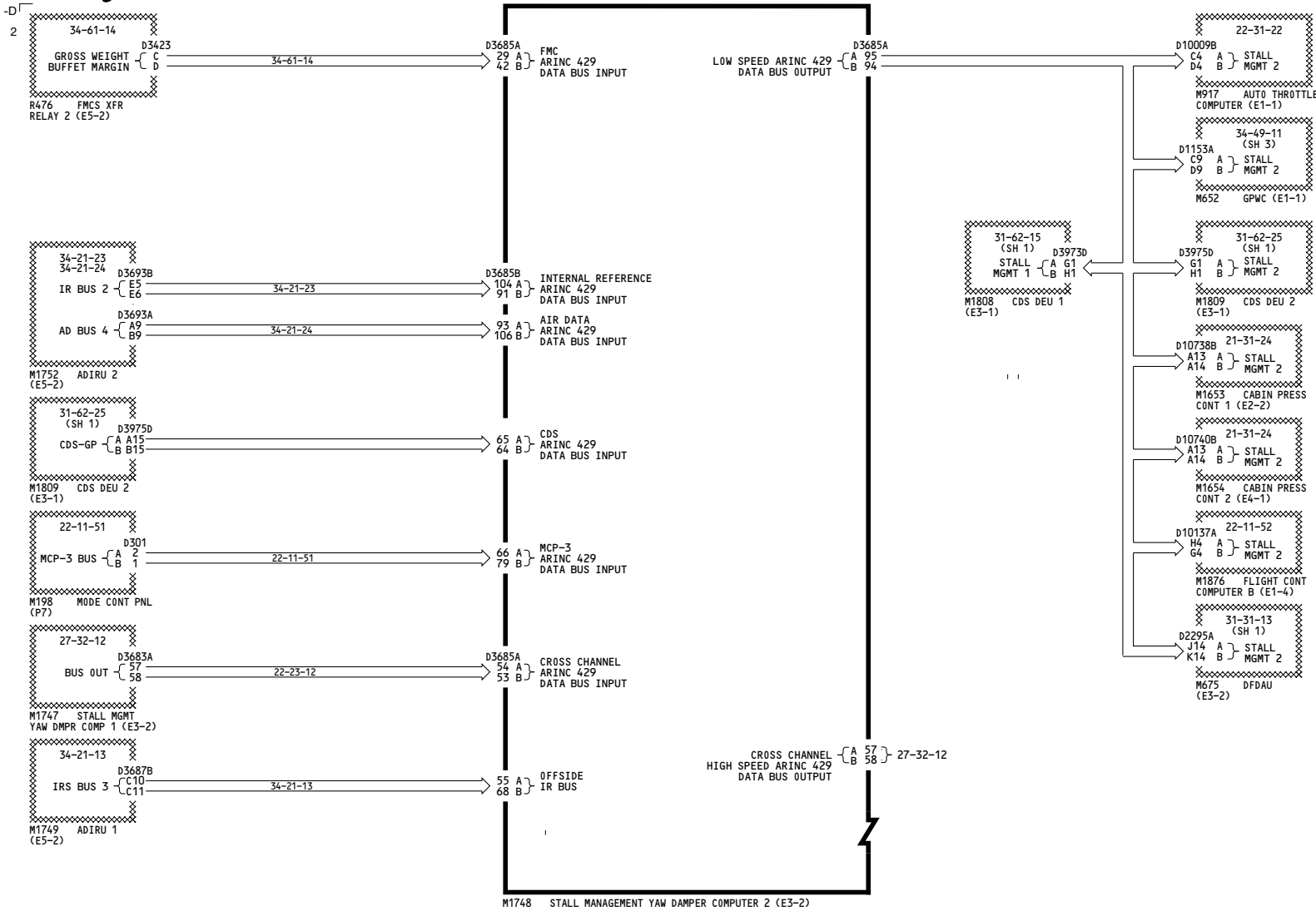
**STALL WARNING SYSTEM 2  
POWER AND ANALOGS**

D280A203

**27-32-21**

Page 103

Jan 14/2008



WIRING DIAGRAMS	
21-31-24	27-32-11
27-32-12	27-32-21
27-31-22	30-31-01
31-31-12	31-31-52
32-64-01	32-64-11
34-64-12	34-49-02

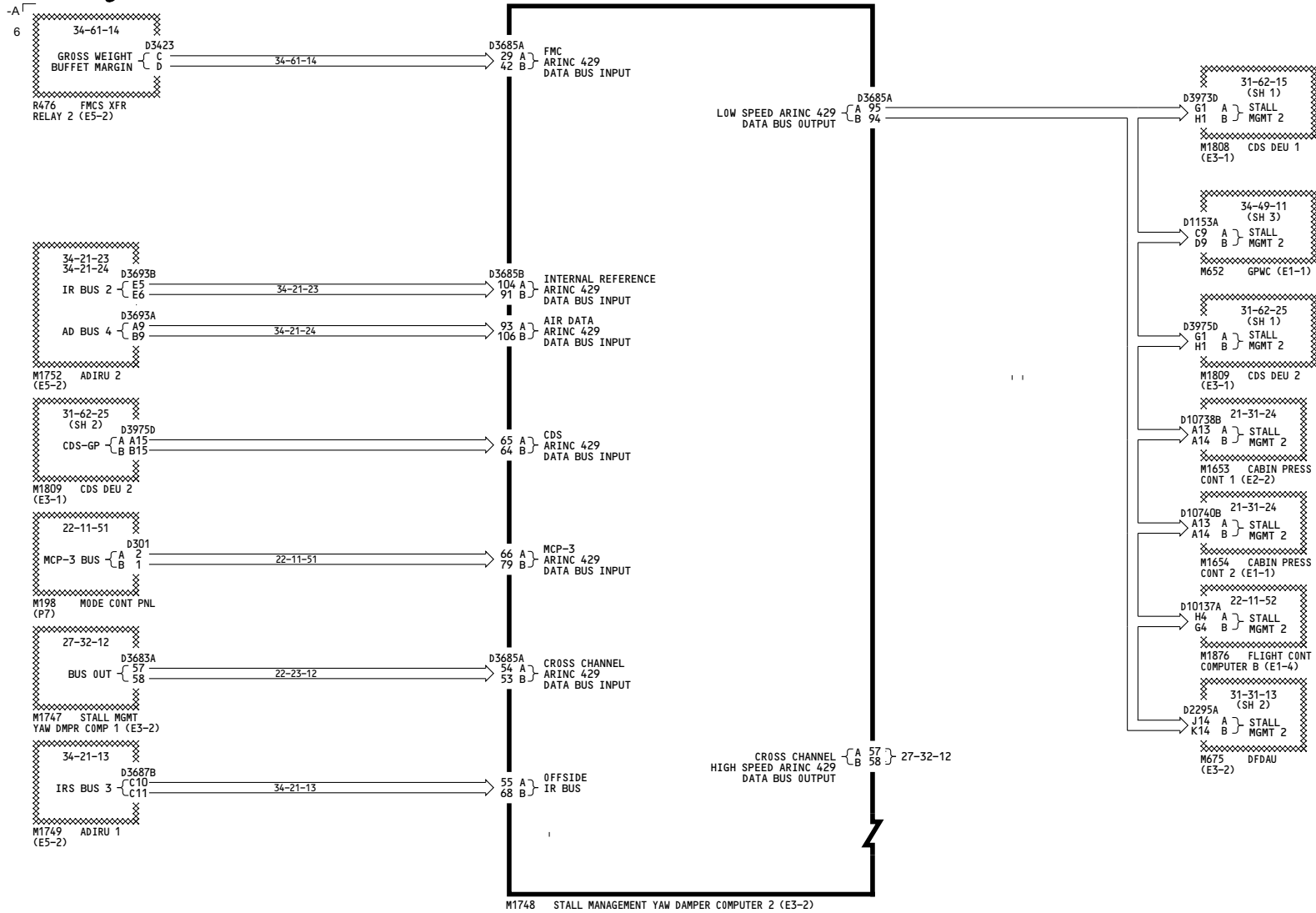
YC001-YC030

**STALL WARNING SYSTEM 2  
DIGITAL INTERFACE**

D280A203

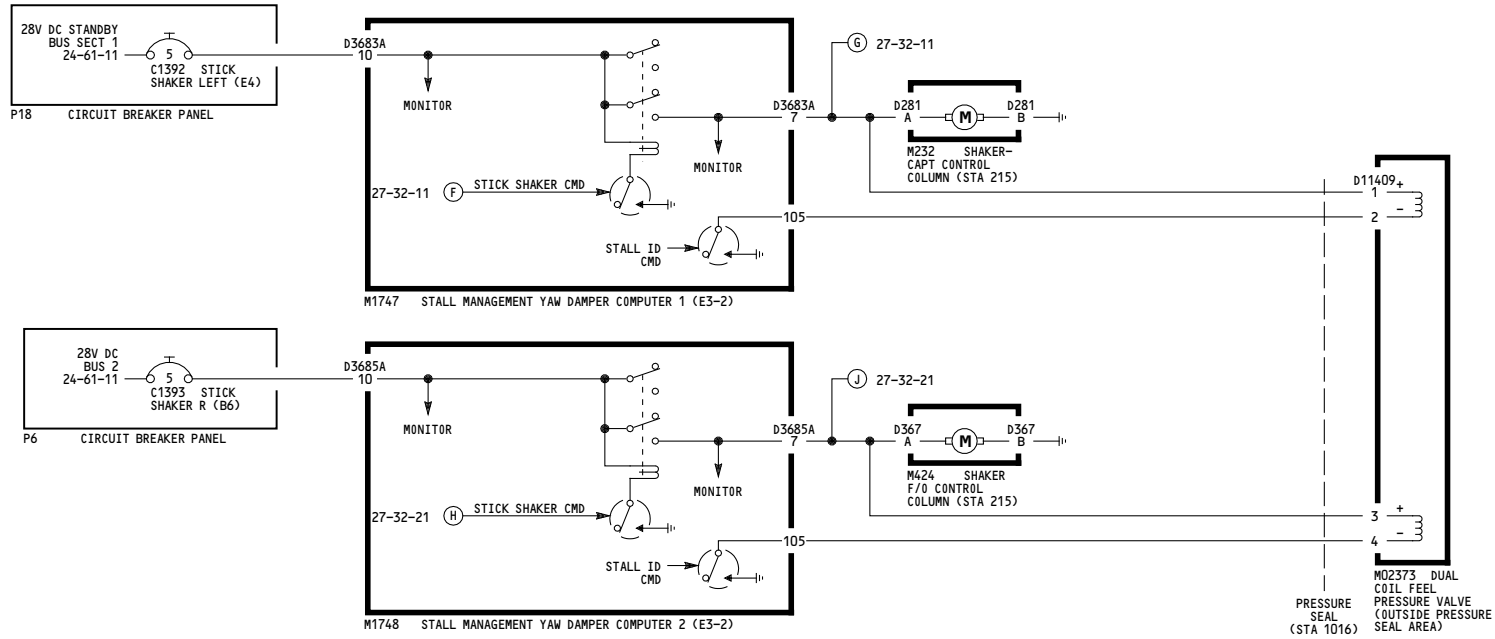
**27-32-22**

WIRING DIAGRAMS	
21-31-24	27-32-11
27-32-12	27-32-21
27-31-22	30-31-01
31-31-12	31-31-52
32-64-01	32-64-11
34-64-12	34-49-02



YK901-YM670	<b>STALL WARNING SYSTEM 2 DIGITAL INTERFACE</b>
	D280A203

-B  
1



YC001-YC007	<p><b>STALL IDENTIFICATION-ELEVATOR FEEL SHIFT</b></p> <p>D280A203</p>
-------------	------------------------------------------------------------------------

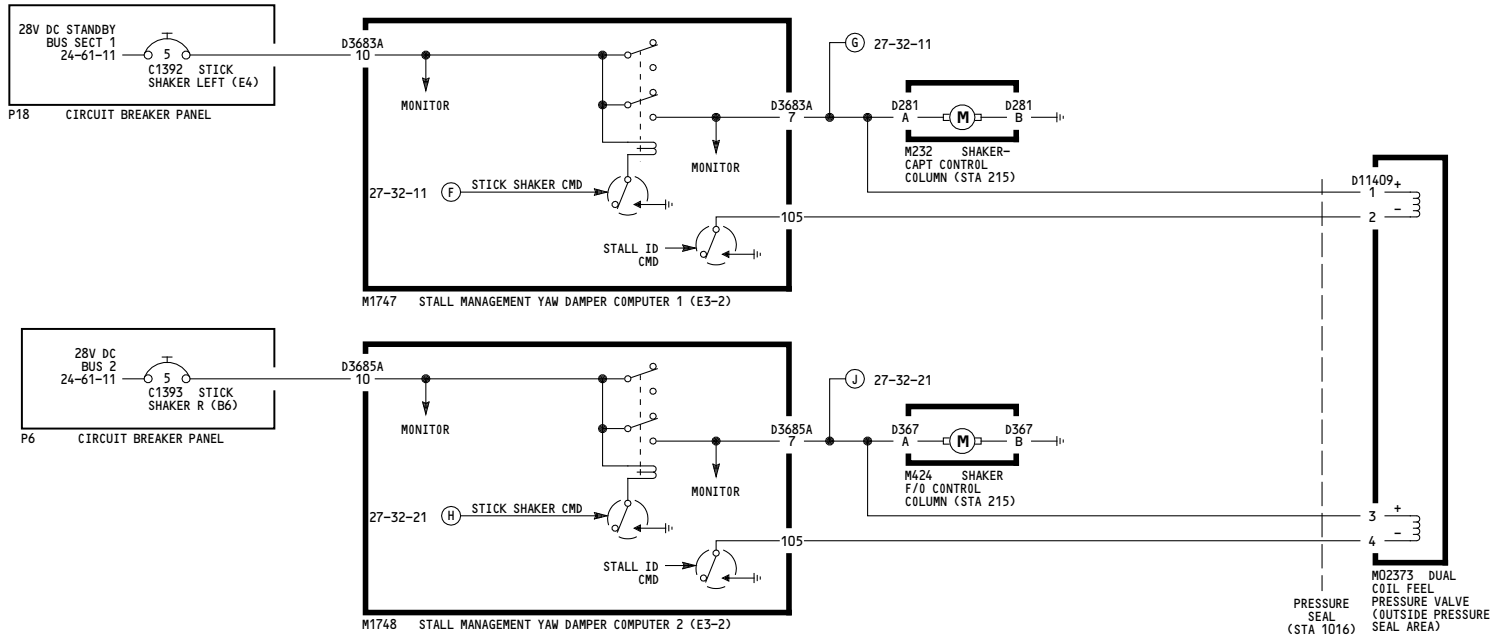
Incorporates  
27-1220

**27-32-31**

Page 101.1

Jan 18/2007

-B  
1



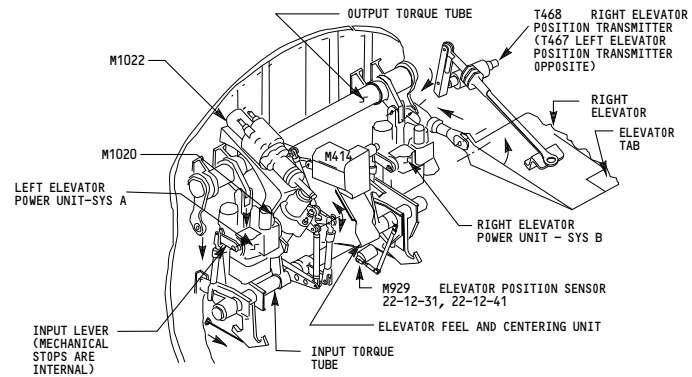
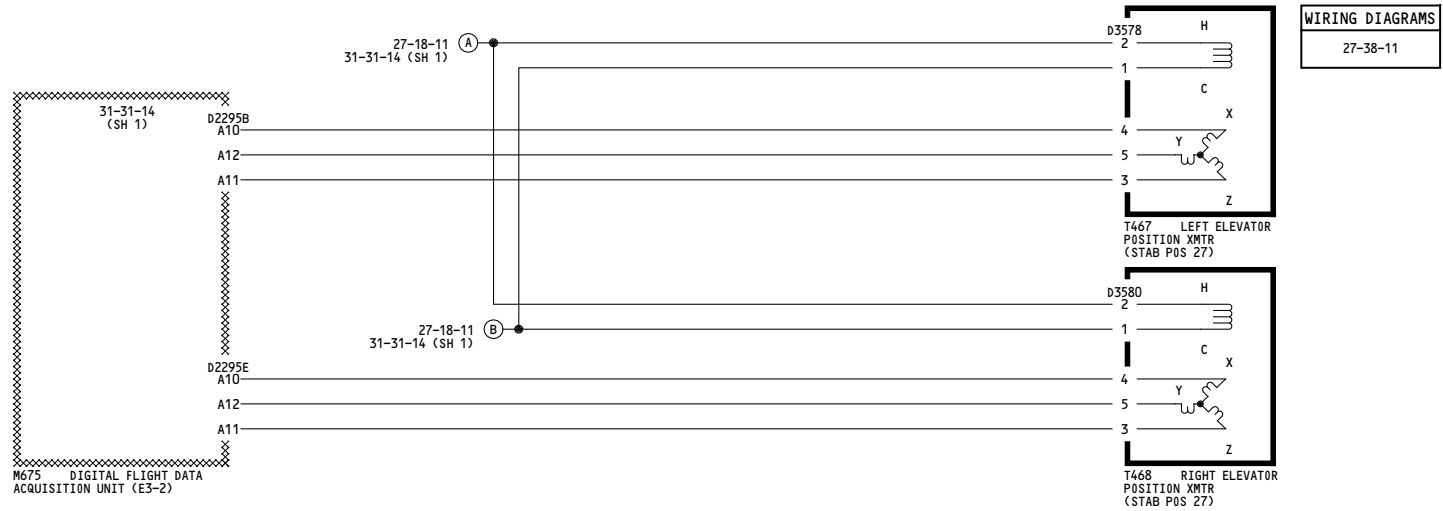
<p>YC008-YM670</p>	<p><b>STALL IDENTIFICATION-ELEVATOR FEEL SHIFT</b></p> <p>D280A203</p>
--------------------	------------------------------------------------------------------------

**27-32-31**

Page 102

Feb 09/2009

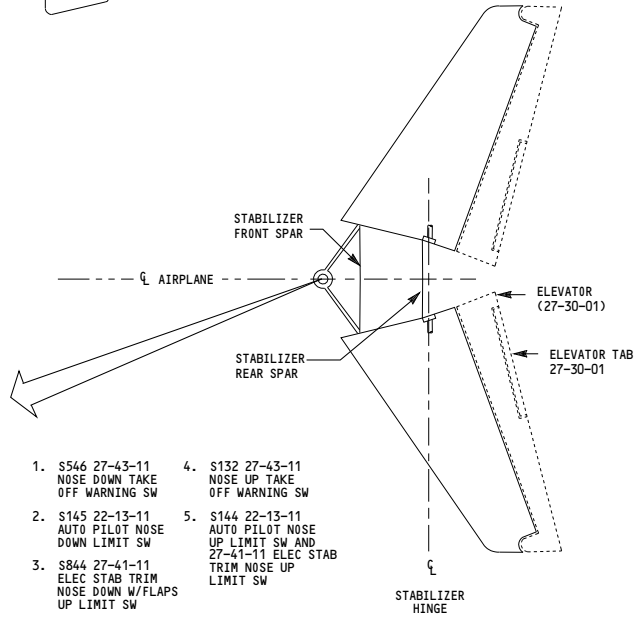
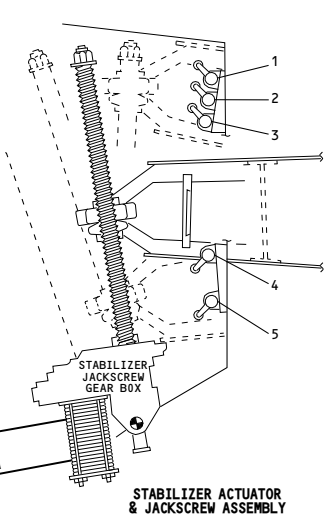
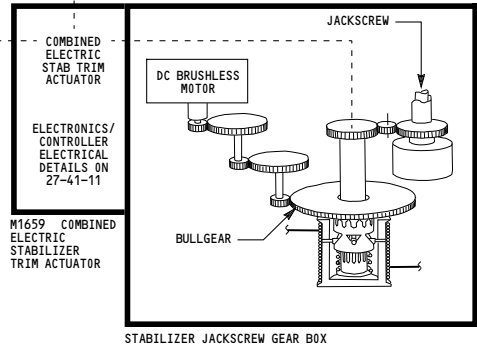
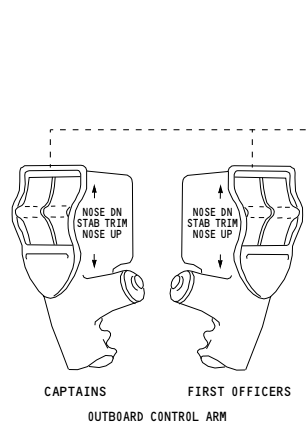
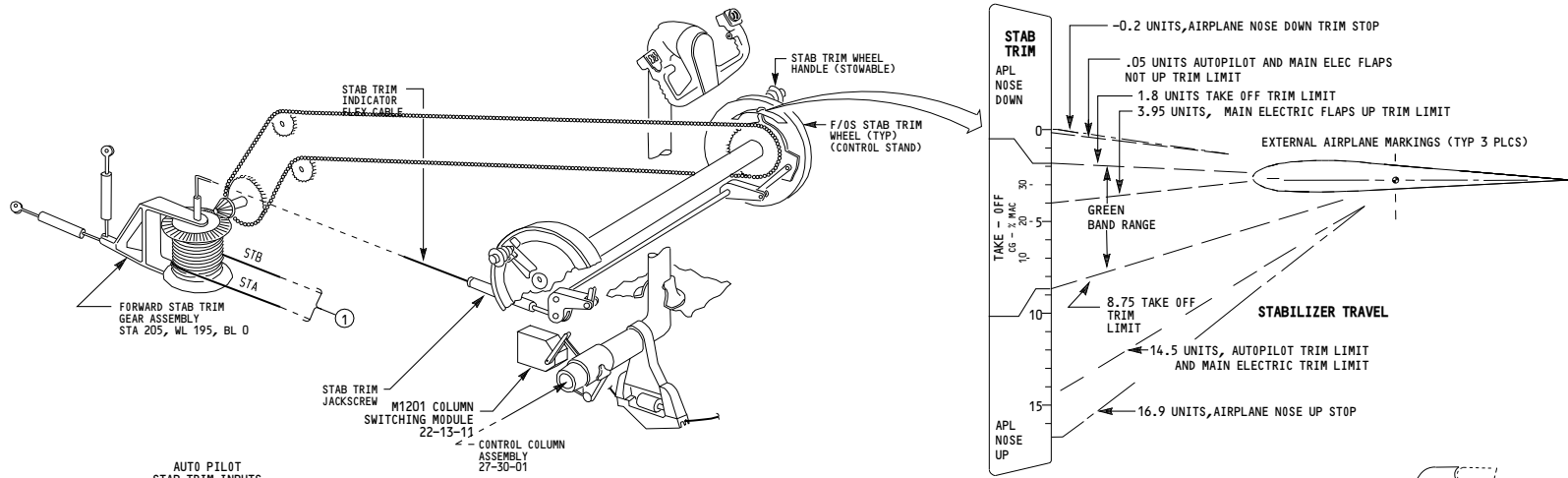
-H  
1



ALL	<p><b>ELEVATOR POSITION INDICATION</b></p> <p>D280A203</p>
-----	------------------------------------------------------------

**27-38-11**

-B  
2



<p>YC001-YK906</p>	<p><b>HORIZONTAL STABILIZERS</b></p> <p>D280A203</p>
--------------------	------------------------------------------------------

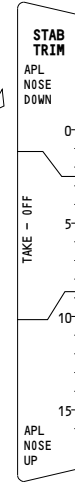
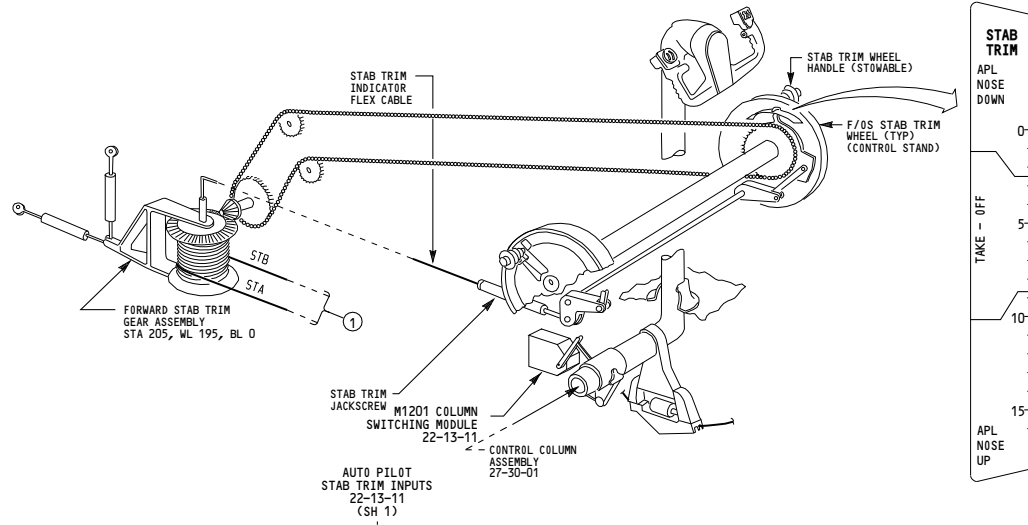
**27-40-01**

Page 101

Jul 17/2007

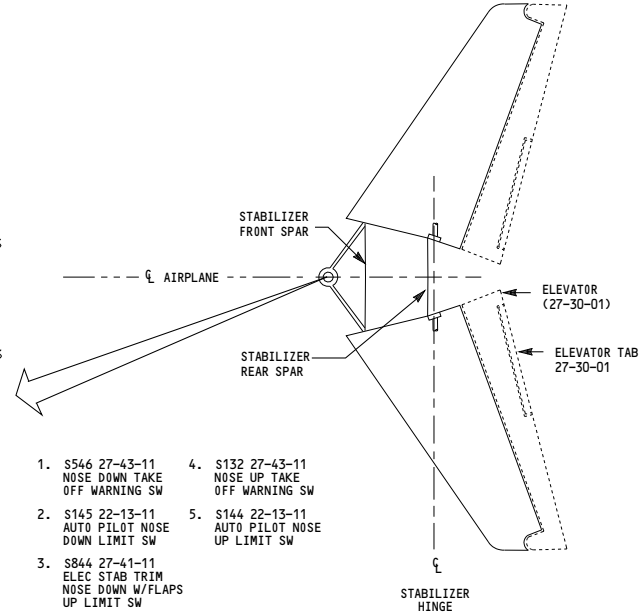
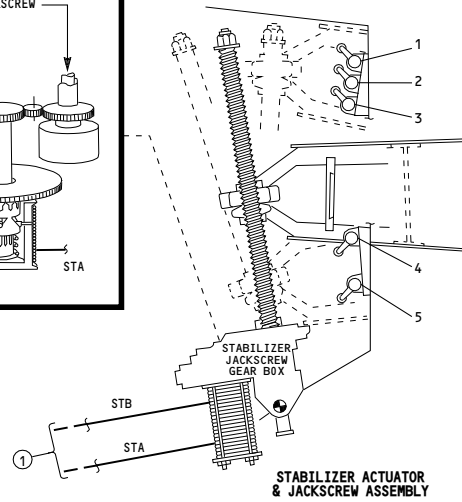
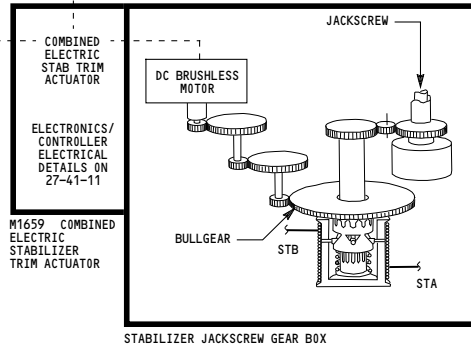
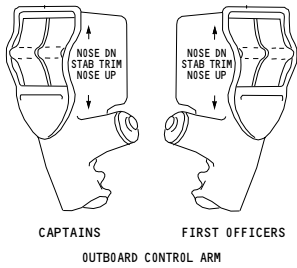


-G  
1



MINOR MODEL	WINGLETS	STOPS		TAKEOFF TRIM LIMITS		GREENBAND LIMITS		AUTOPILOT & MAIN ELEC FLAPS NOT UP TRIM LIMITS	MAIN ELECTRIC FLAPS UP TRIM LIMIT	AUTOPILOT & MAIN ELECTRIC TRIM LIMIT
		AND	ANU	AND	ANU	AND	ANU			
-600	W/O	-0.20	16.90	2.00	8.85	2.25	8.60	0.05	4.10	14.50
	W/	-0.20	16.90	TBD	TBD	TBD	TBD	0.05	4.10	14.50
-700	W/O	-0.20	16.90	2.40	8.75	2.65	8.50	0.05	4.30	14.50
	W/	-0.20	16.90	3.60	9.95	3.95	9.70	0.05	4.30	14.50
-700 IGW	W/O	-0.20	16.90	2.40	8.75	2.65	8.50	0.05	4.30	14.50
	W/	-0.20	16.90	4.30	9.95	4.55	9.70	0.05	4.30	14.50
-800	W/O	-0.20	16.90	1.80	8.75	2.05	8.50	0.05	3.95	14.50
	W/	-0.20	16.90	2.40	8.75	2.65	8.50	0.05	3.95	14.50
-800 SFP	W/O	-0.20	16.90	2.40	8.75	2.65	8.50	0.05	3.95	14.50
	W/	-0.20	16.90	2.40	8.75	2.65	8.50	0.05	3.90	14.50
-900	W/O	-0.20	16.90	2.40	8.75	2.65	8.50	0.05	3.90	14.50
	W/	-0.20	16.90	2.40	8.75	2.65	8.50	0.05	3.90	14.50

ANU=AIRPLANE NOSE UP AND=AIRPLANE NOSE DOWN -600S DO NOT HAVE ANY WINGLET INSTALLATIONS



YK907-YM670

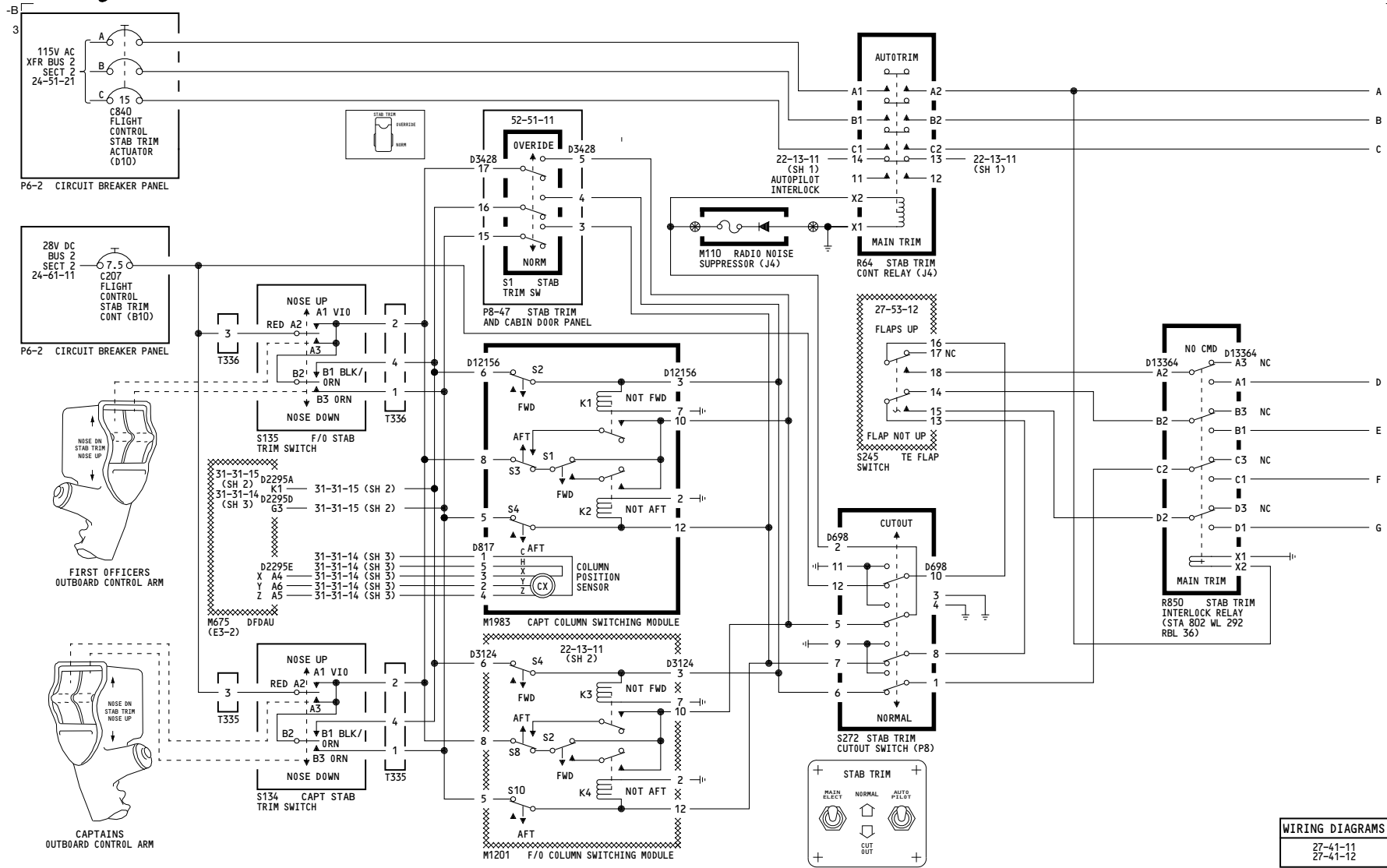
**HORIZONTAL STABILIZERS**

D280A203

**27-40-01**

Page 102

Feb 09/2009



WIRING DIAGRAMS  
27-41-11  
27-41-12

**27-41-11**

Page 101.1  
Sheet 1  
Jul 26/2006

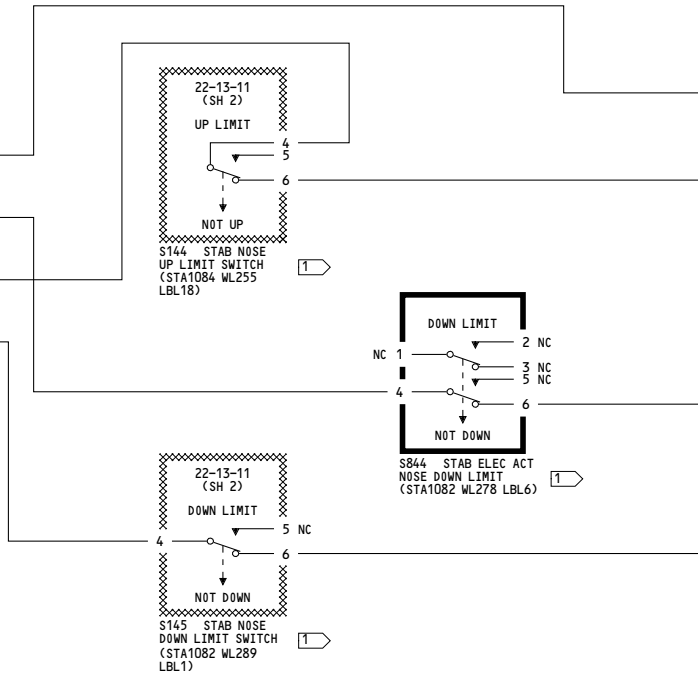
<p>YC001-YC011</p>	<p><b>HORIZONTAL STABILIZER TRIM CONTROL</b></p> <p>D280A203</p>
--------------------	------------------------------------------------------------------

Incorporates  
27A1228 R01

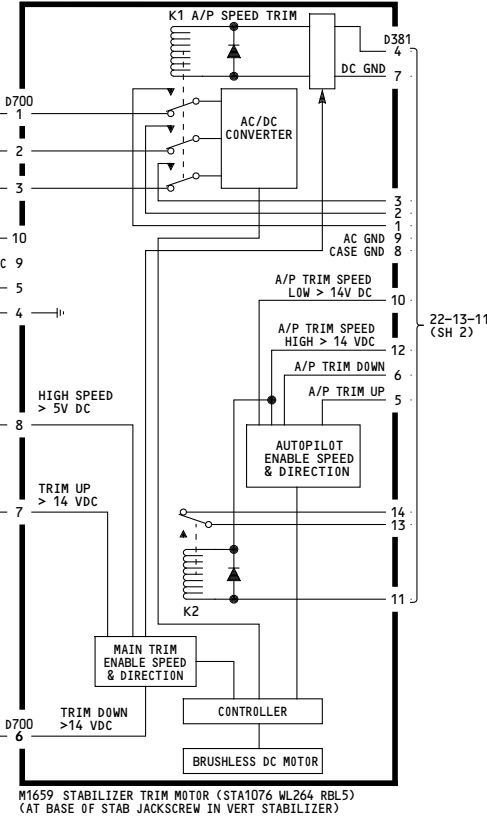
-A  
1

A  
B  
C

D  
E  
F  
G



A



WIRING DIAGRAMS  
27-41-11  
27-41-12

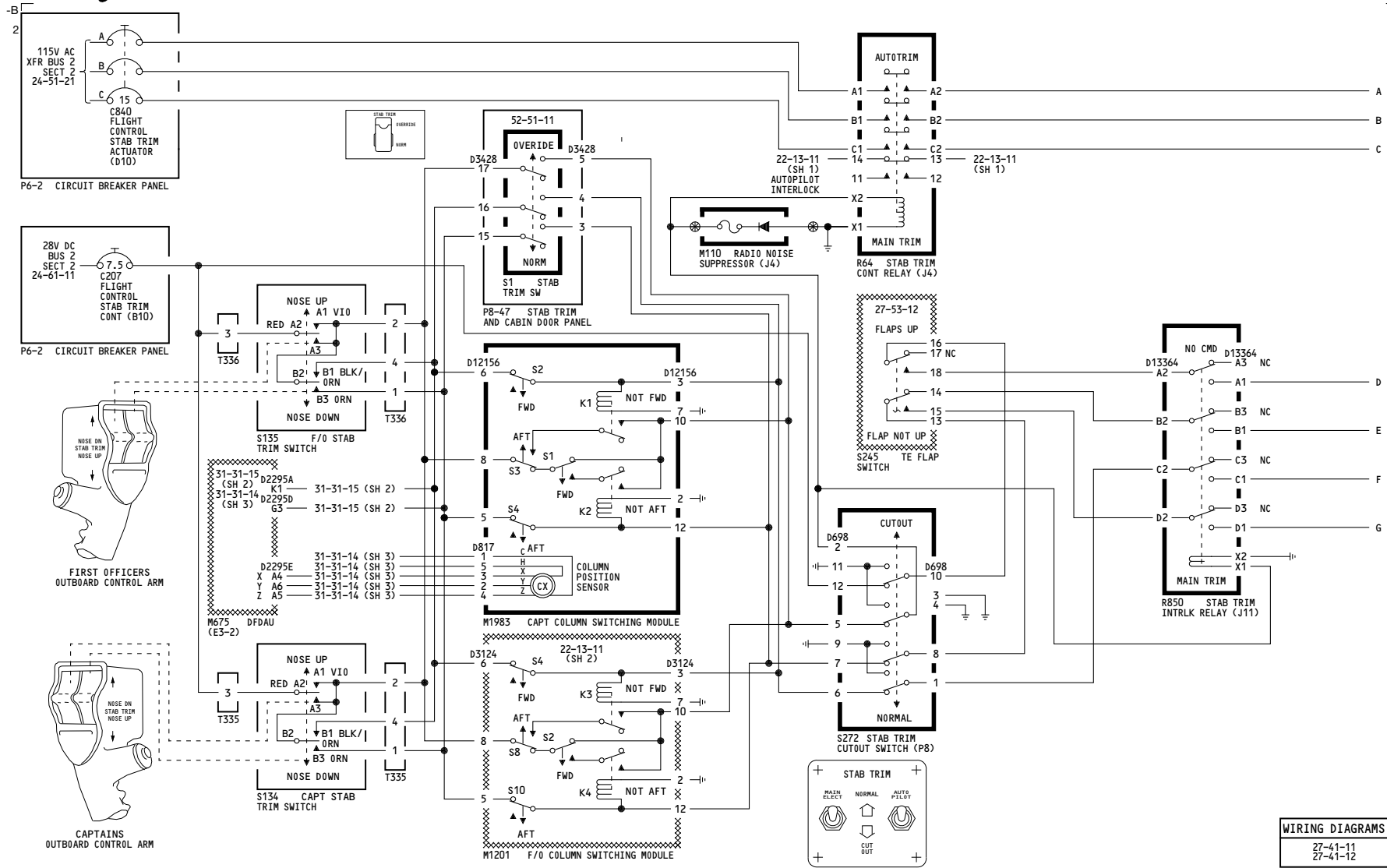
NOTES:  
1 SWITCHES LOCATED NEAR STABILIZER JACKSCREW IN VERTICAL STABILIZER

YC001-YC011	<b>HORIZONTAL STABILIZER TRIM CONTROL</b>
	D280A203

Incorporates  
27A1228 R01

**27-41-11**

Page 101.1  
Sheet 2  
May 11/2009



WIRING DIAGRAMS  
27-41-11  
27-41-12

**27-41-11**

YC012-YC030

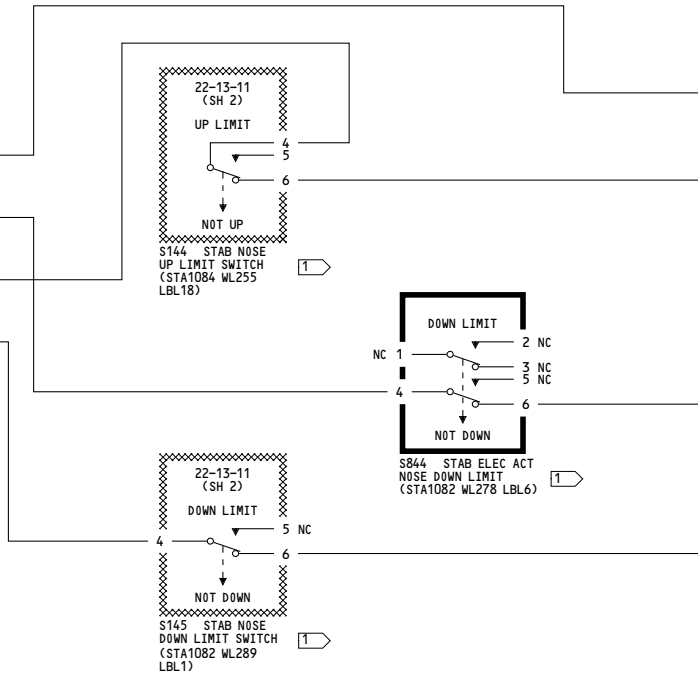
**HORIZONTAL STABILIZER TRIM CONTROL**

D280A203

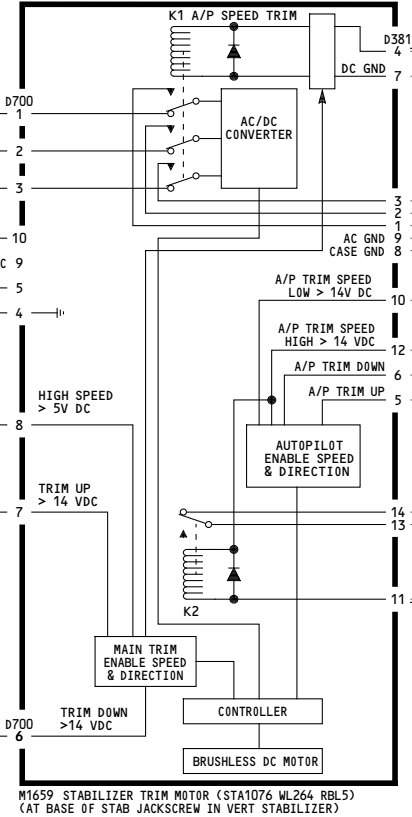
-A  
1

A  
B  
C

D  
E  
F  
G



A



WIRING DIAGRAMS  
27-41-11  
27-41-12

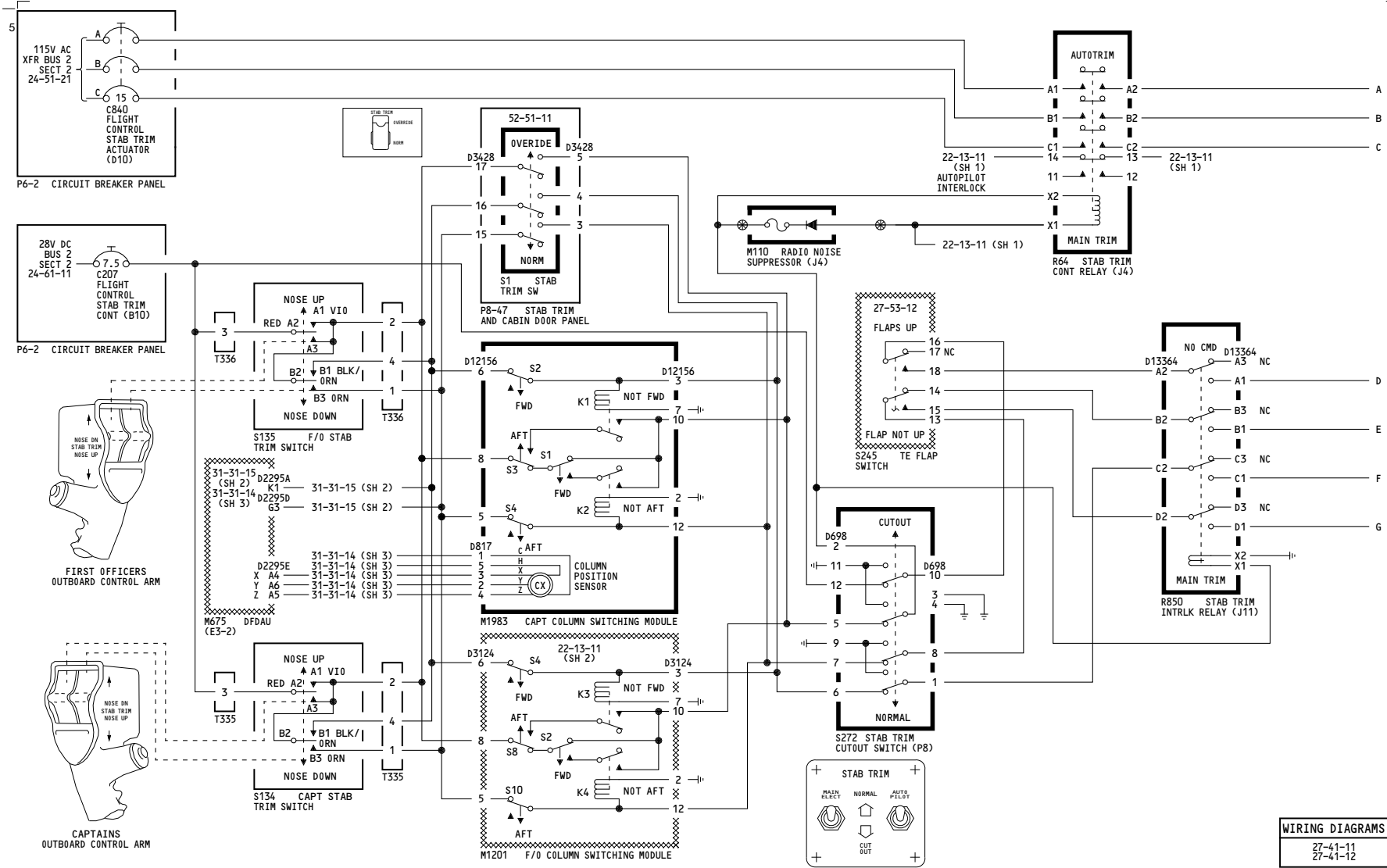
22-13-11  
(SH 2)

NOTES:  
1 SWITCHES LOCATED NEAR STABILIZER JACKSCREW IN VERTICAL STABILIZER

<p>YC012-YC030</p>	<p><b>HORIZONTAL STABILIZER TRIM CONTROL</b></p> <p>D280A203</p>
--------------------	------------------------------------------------------------------

**27-41-11**

Page 102  
Sheet 2  
May 11/2009



**WIRING DIAGRAMS**  
27-41-11  
27-41-12

YK901-YK912, YK918-YK919, YL401-YL429

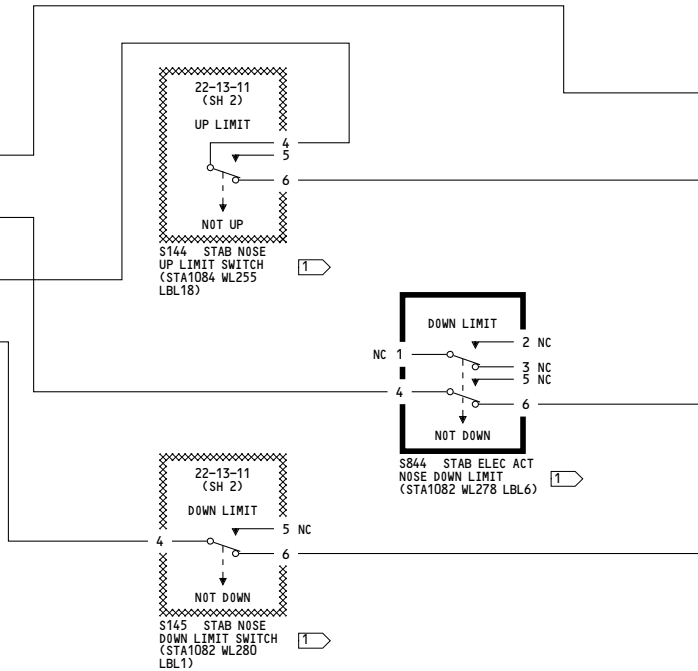
**HORIZONTAL STABILIZER TRIM CONTROL**  
D280A203

**27-41-11**

-A  
3

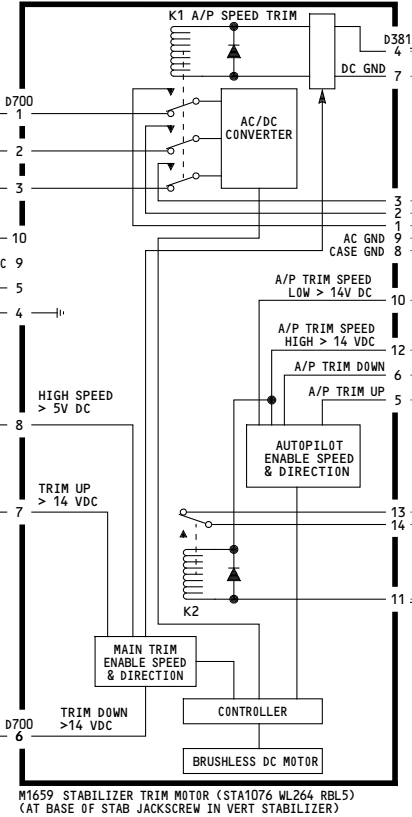
A  
B  
C

D  
E  
F  
G



A

10  
9  
5  
4  
8  
7  
6



WIRING DIAGRAMS  
27-41-11  
27-41-12

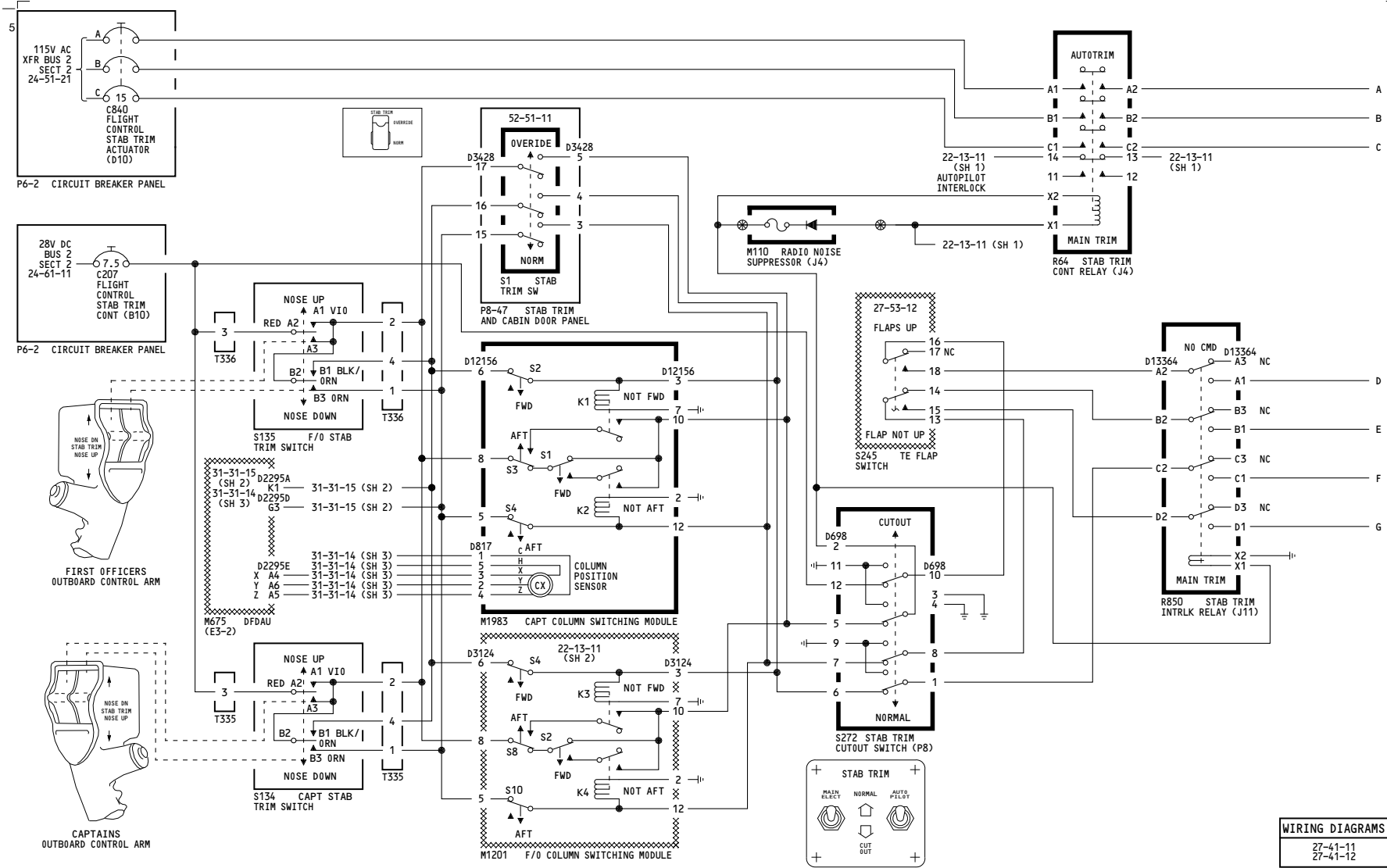
22-13-11  
(SH 2)

NOTES:  
1 SWITCHES LOCATED NEAR STABILIZER JACKSCREW IN VERTICAL STABILIZER

YK901-YK912, YK918-YK919, YL401-YL429	<b>HORIZONTAL STABILIZER TRIM CONTROL</b>  D280A203

**27-41-11**

Page 103  
Sheet 2  
May 11/2009



<p>YM643-YM652</p>	<p><b>HORIZONTAL STABILIZER TRIM CONTROL</b></p> <p>D280A203</p>
--------------------	------------------------------------------------------------------

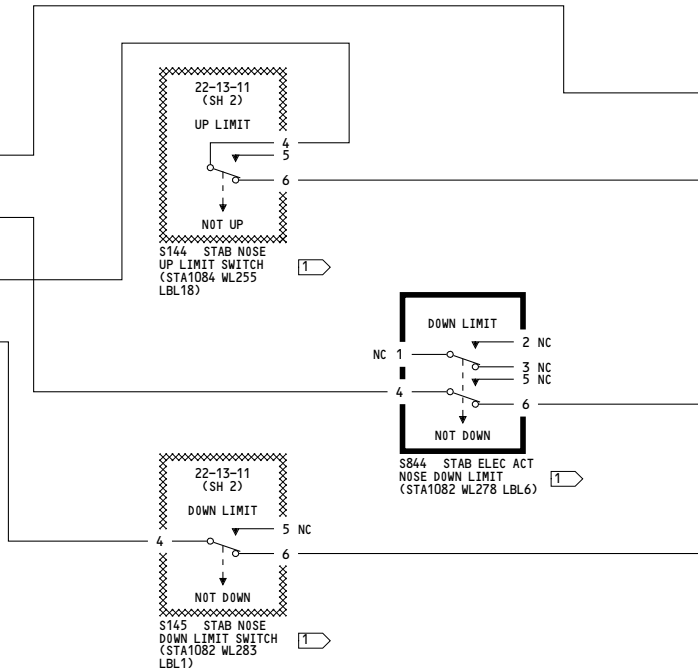
**27-41-11**



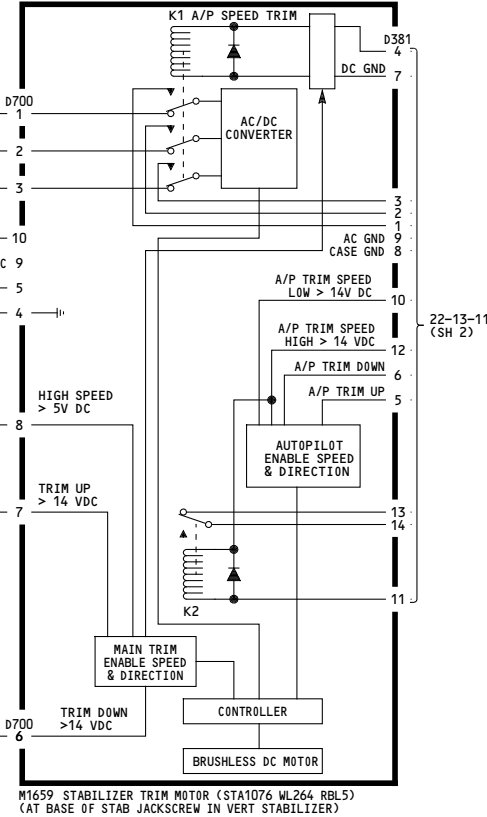
-A  
4

A  
B  
C

D  
E  
F  
G



A



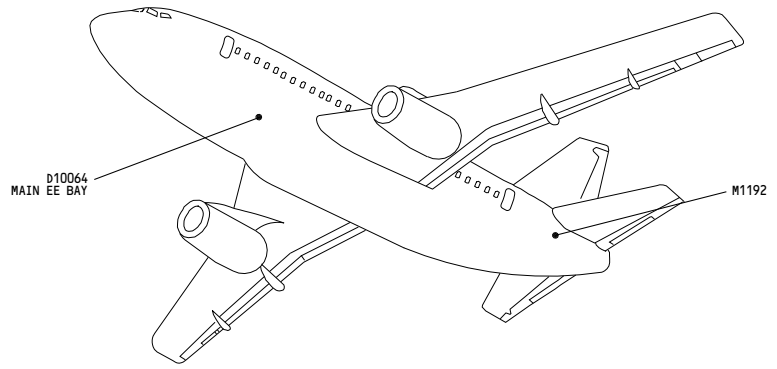
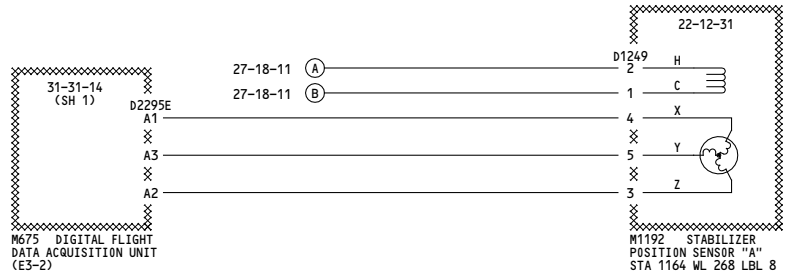
WIRING DIAGRAMS  
27-41-11  
27-41-12

NOTES:  
1 SWITCHES LOCATED NEAR STABILIZER JACKSCREW IN VERTICAL STABILIZER

YM643-YM652	<p align="center"><b>HORIZONTAL STABILIZER TRIM CONTROL</b></p> <p align="center">D280A203</p>
-------------	------------------------------------------------------------------------------------------------

**27-41-11**

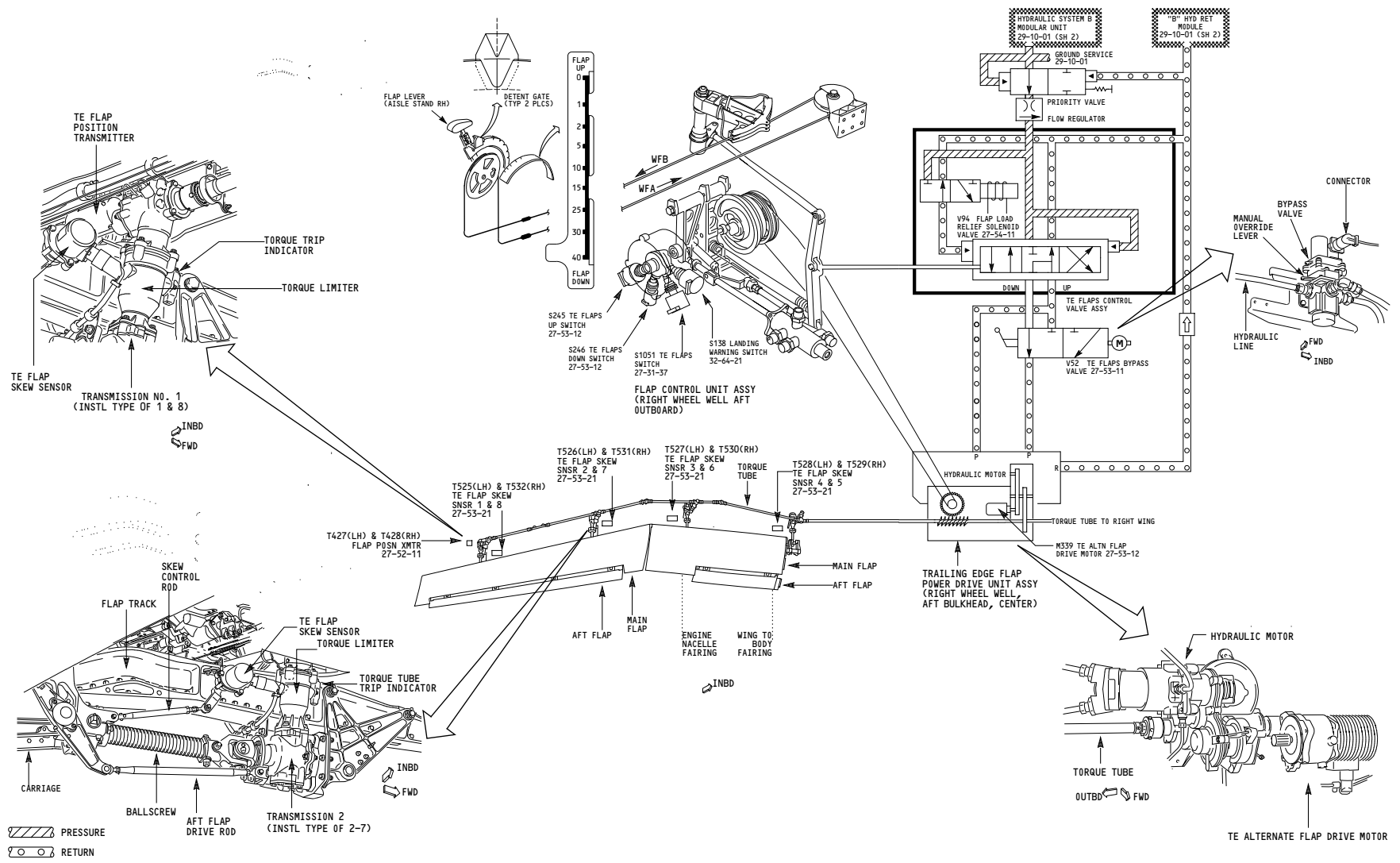
Page 104  
Sheet 2  
May 11/2009



ALL	<p><b>HORIZONTAL STABILIZER TRIM INDICATION</b></p> <p>D280A203</p>
-----	---------------------------------------------------------------------

THIS PAGE INTENTIONALLY LEFT BLANK

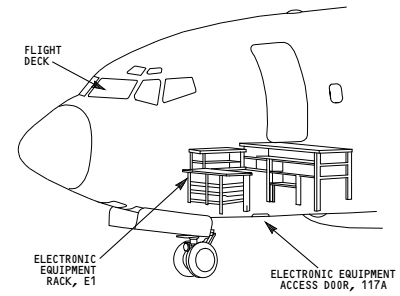
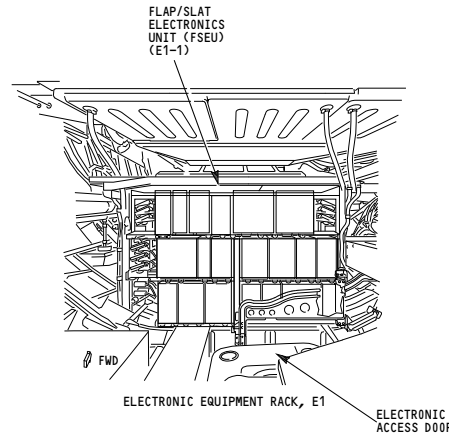
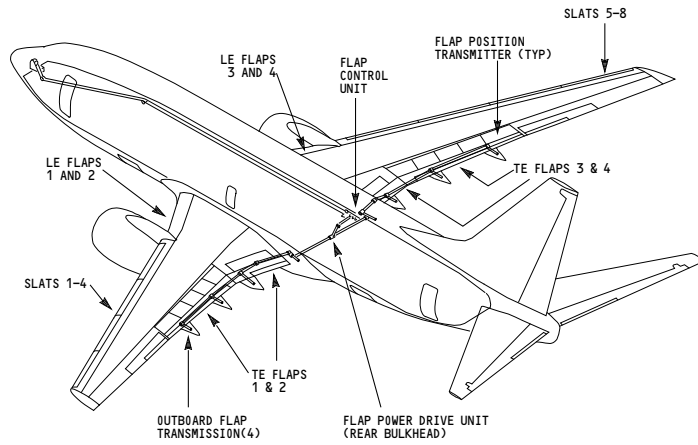
1



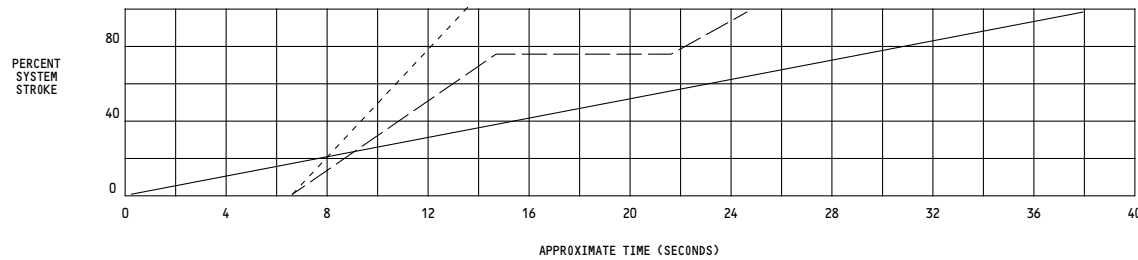
<p>YC001-YK906, YM643-YM670</p>	<p><b>HIGHLIFT SYSTEM OVERVIEW</b></p> <p>D280A203</p>
---------------------------------	--------------------------------------------------------

**27-50-01**

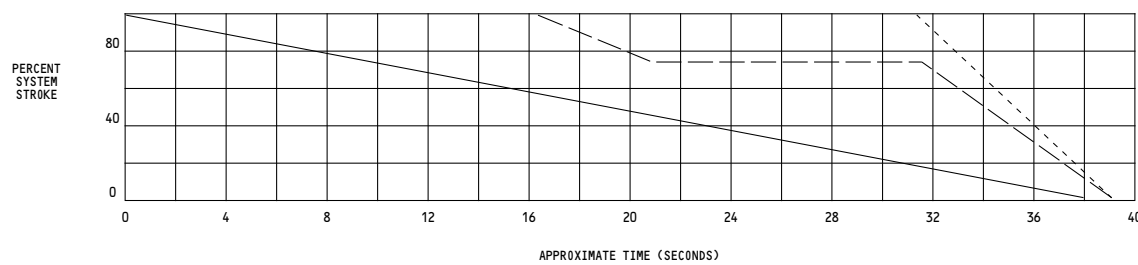
-H  
1



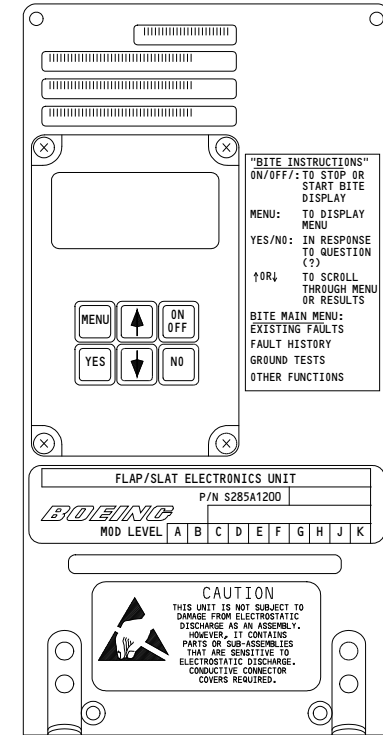
SYSTEM EXTENSION



SYSTEM RETRACTION



— T.E. FLAPS  
- - - L.E. FLAPS  
- · - L.E. SLATS

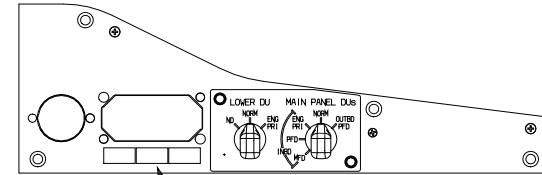
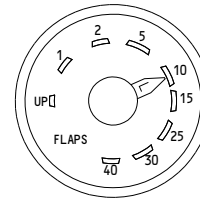
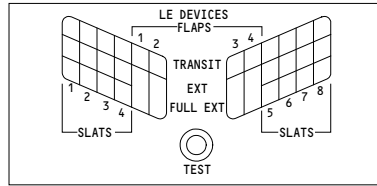


M1746 FLAP/SLAT ELECTRONICS UNIT (FSEU)

YC001-YK906, YM643-YM670	<b>HIGHLIFT SYSTEM OVERVIEW</b>
	D280A203

**27-50-01**

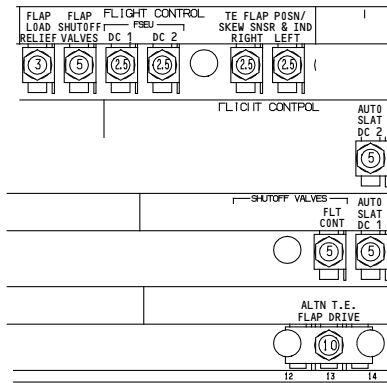
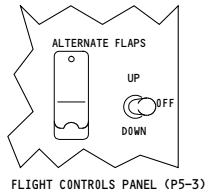
-A  
1



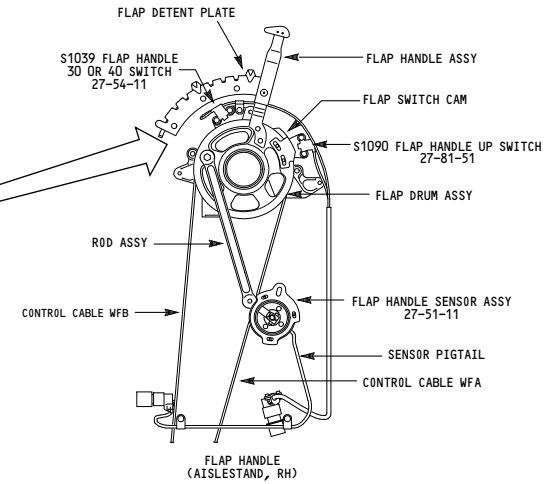
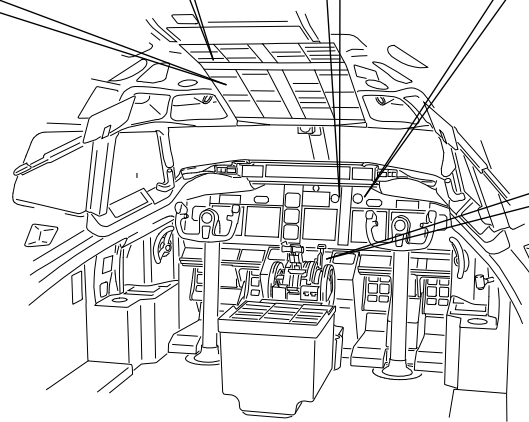
AFT OVERHEAD PANEL (P5-12)  
27-81-11  
27-81-12  
27-81-21  
27-81-22

LE FLAPS TRANSIT	LE FLAPS EXT
---------------------	-----------------

NS4 TE FLAP POSITION INDICATOR  
(CENTER INSTRUMENT PANEL, P2-2)  
27-52-11  
27-81-31



CIRCUIT BREAKER PANEL (P6-2)



YC001-YK906, YM643-YM670

**HIGHLIFT SYSTEM OVERVIEW**

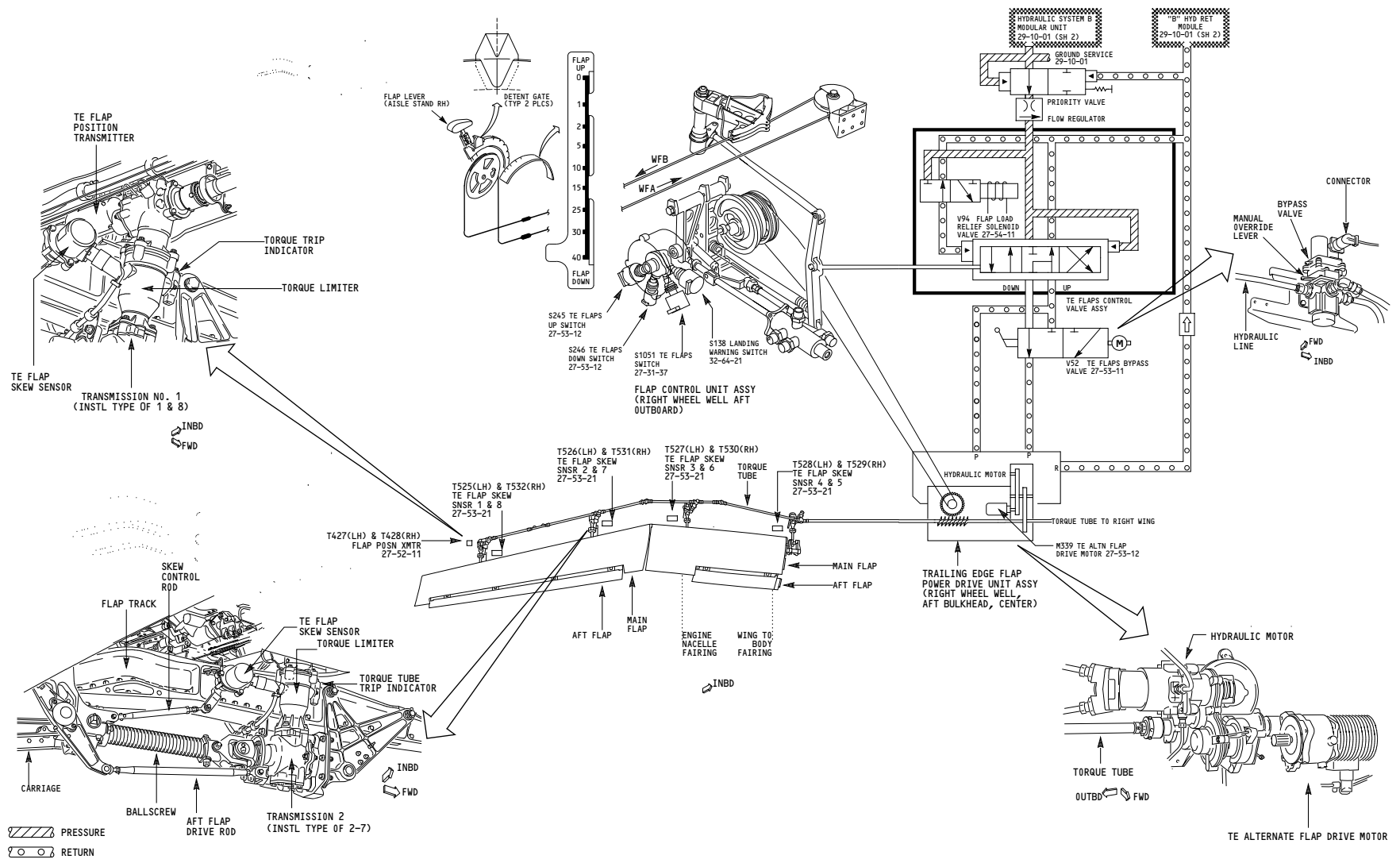
D280A203

**27-50-01**

Page 101  
Sheet 3  
Jan 14/2008

THIS PAGE INTENTIONALLY LEFT BLANK

1

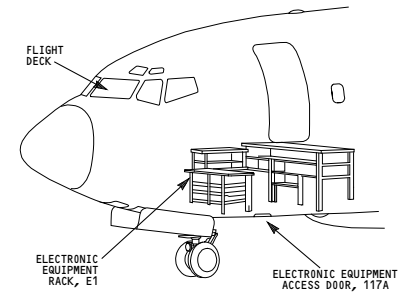
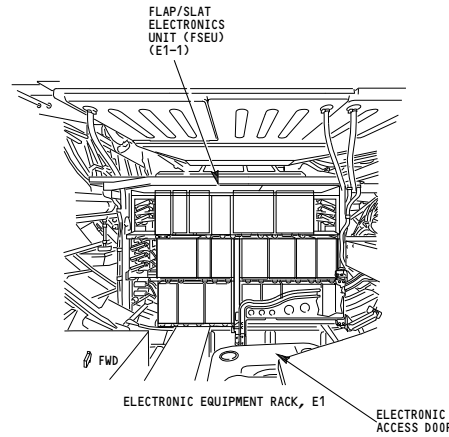
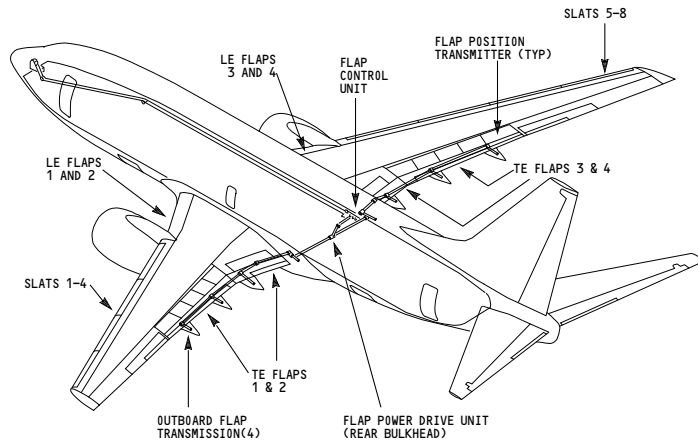


<p>YK907-YL430</p>	<p><b>HIGHLIFT SYSTEM OVERVIEW</b></p> <p>D280A203</p>
--------------------	--------------------------------------------------------

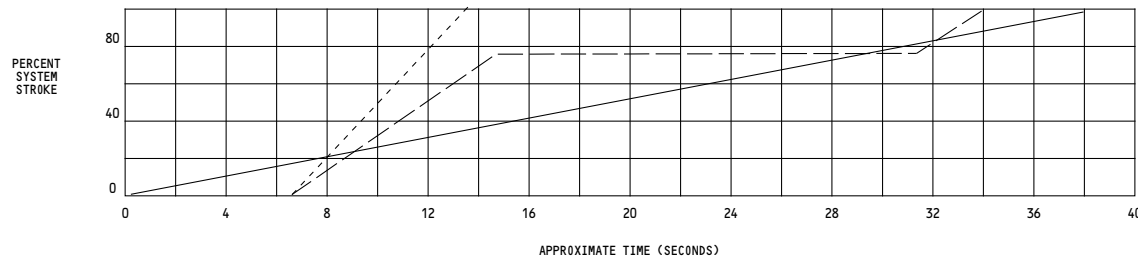
**27-50-01**



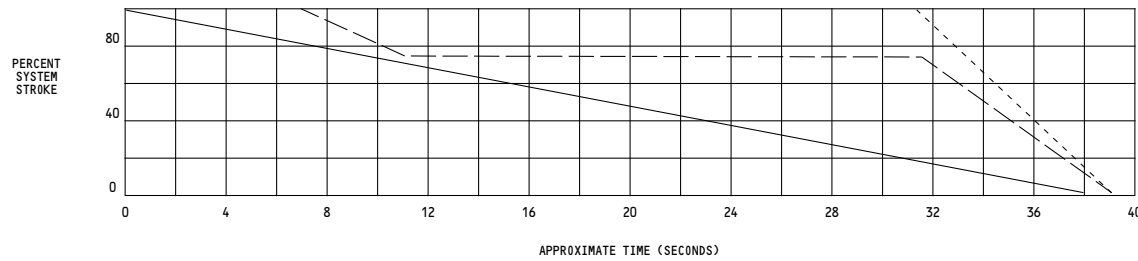
2



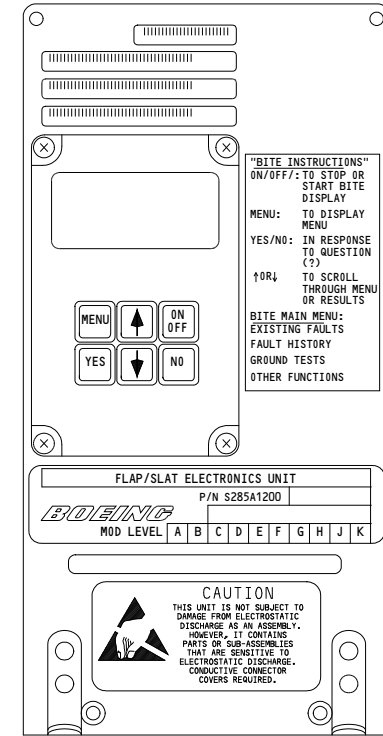
SYSTEM EXTENSION



SYSTEM RETRACTION



— T.E. FLAPS  
 - - - L.E. FLAPS  
 - · - L.E. SLATS



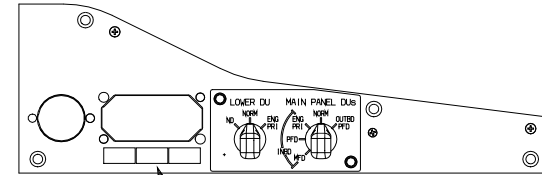
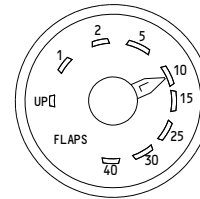
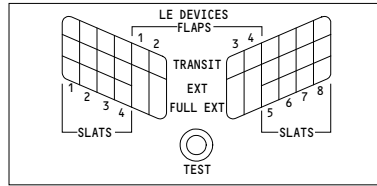
M1746 FLAP/SLAT ELECTRONICS UNIT (FSEU)

YK907-YL430	<b>HIGHLIFT SYSTEM OVERVIEW</b>
D280A203	

**27-50-01**

Page 102  
 Sheet 2  
 Feb 09/2009

-A  
1

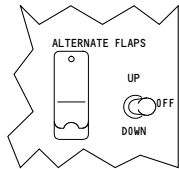


AFT OVERHEAD PANEL (P5-12)  
27-81-11  
27-81-12  
27-81-21  
27-81-22

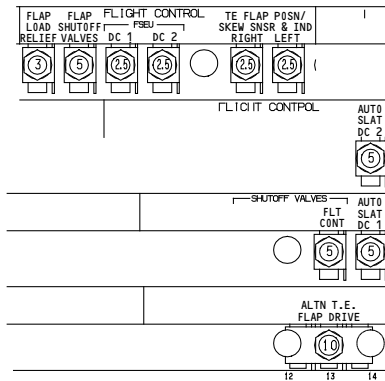
LE FLAPS TRANSIT	LE FLAPS EXT
---------------------	-----------------

NS4 TE FLAP POSITION INDICATOR  
(CENTER INSTRUMENT PANEL, P2-2)  
27-52-11  
27-81-31

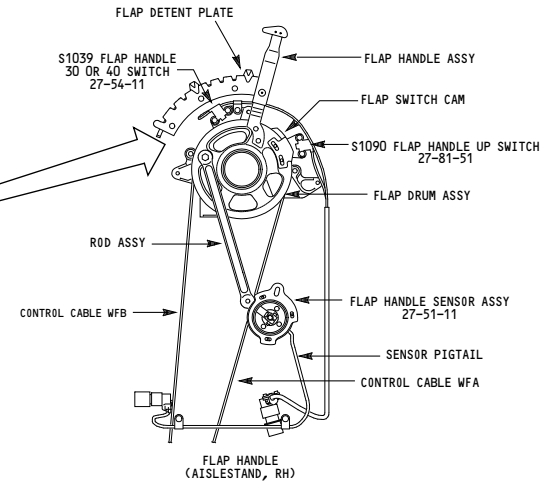
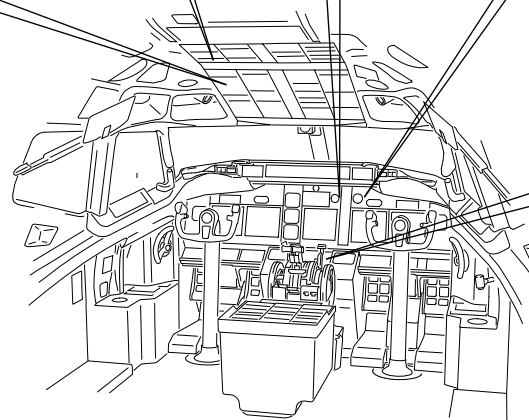
L3 FLAP LOAD RELIEF LIGHT  
(DISPLAY CONTROL PANEL, P3-1)  
27-54-11



FLIGHT CONTROLS PANEL (P5-3)



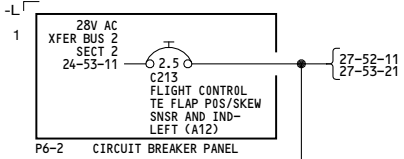
CIRCUIT BREAKER PANEL (P6-2)



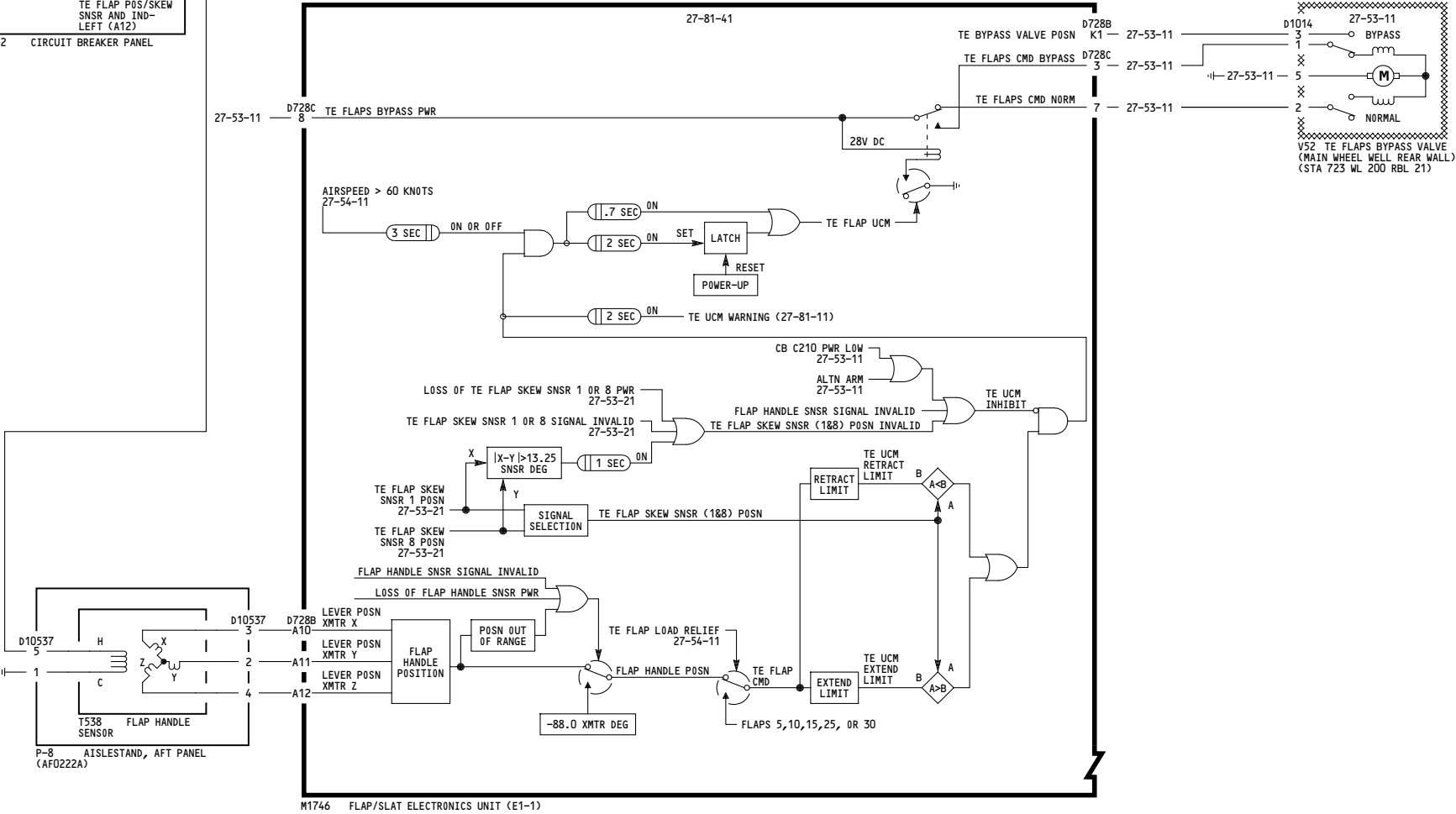
YK907-YL430	<b>HIGHLIFT SYSTEM OVERVIEW</b>
	D280A203

**27-50-01**

Page 102  
Sheet 3  
Feb 09/2009



**WIRING DIAGRAMS**  
27-51-11



ALL

**TRAILING EDGE UNCOMMANDED  
MOTION PROTECTION**

D280A203

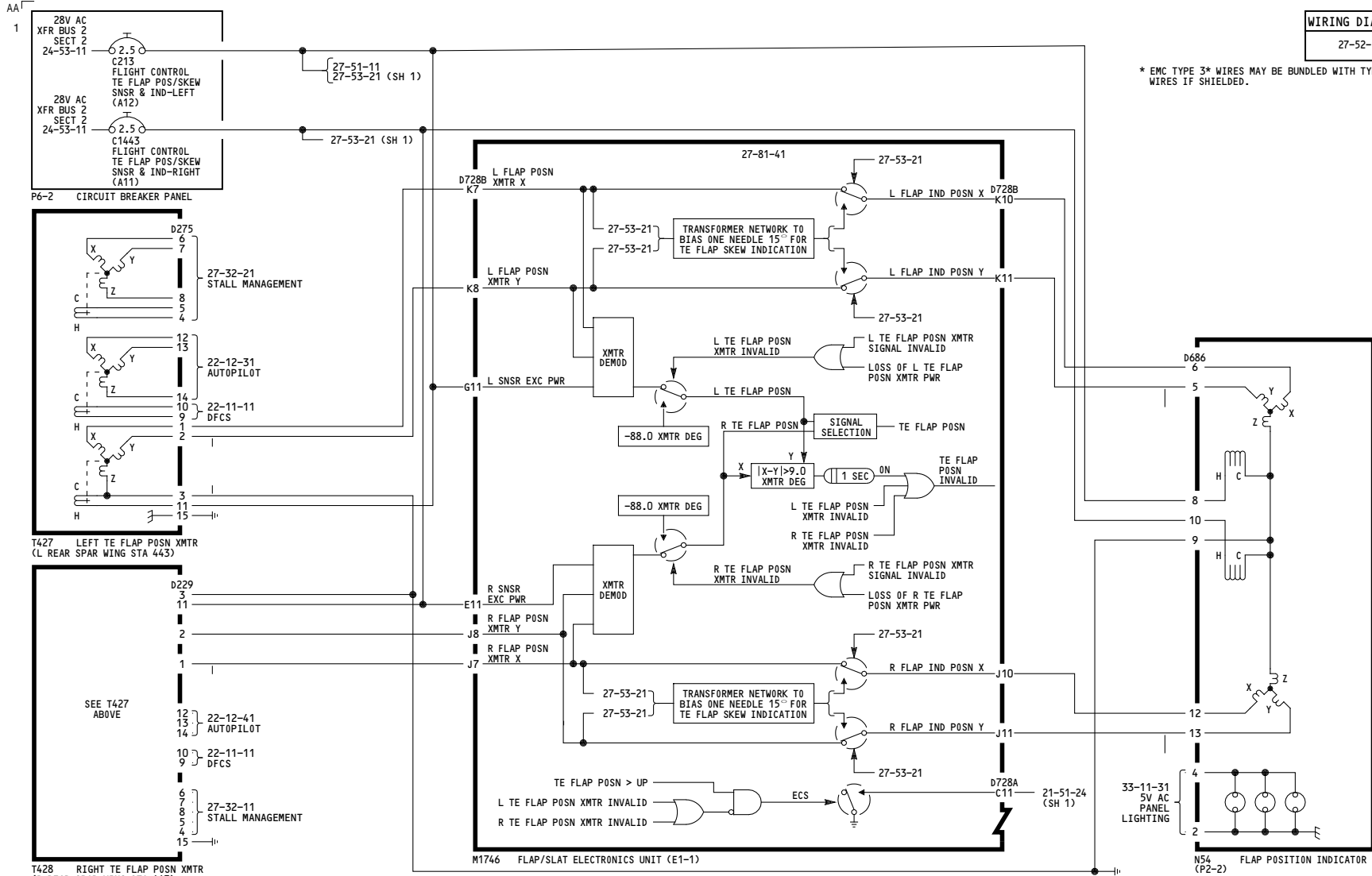
**27-51-11**

Page 101

Feb 09/2009

WIRING DIAGRAMS  
27-52-11

\* EMC TYPE 3\* WIRES MAY BE BUNDLED WITH TYPE 2 WIRES IF SHIELDED.



ALL

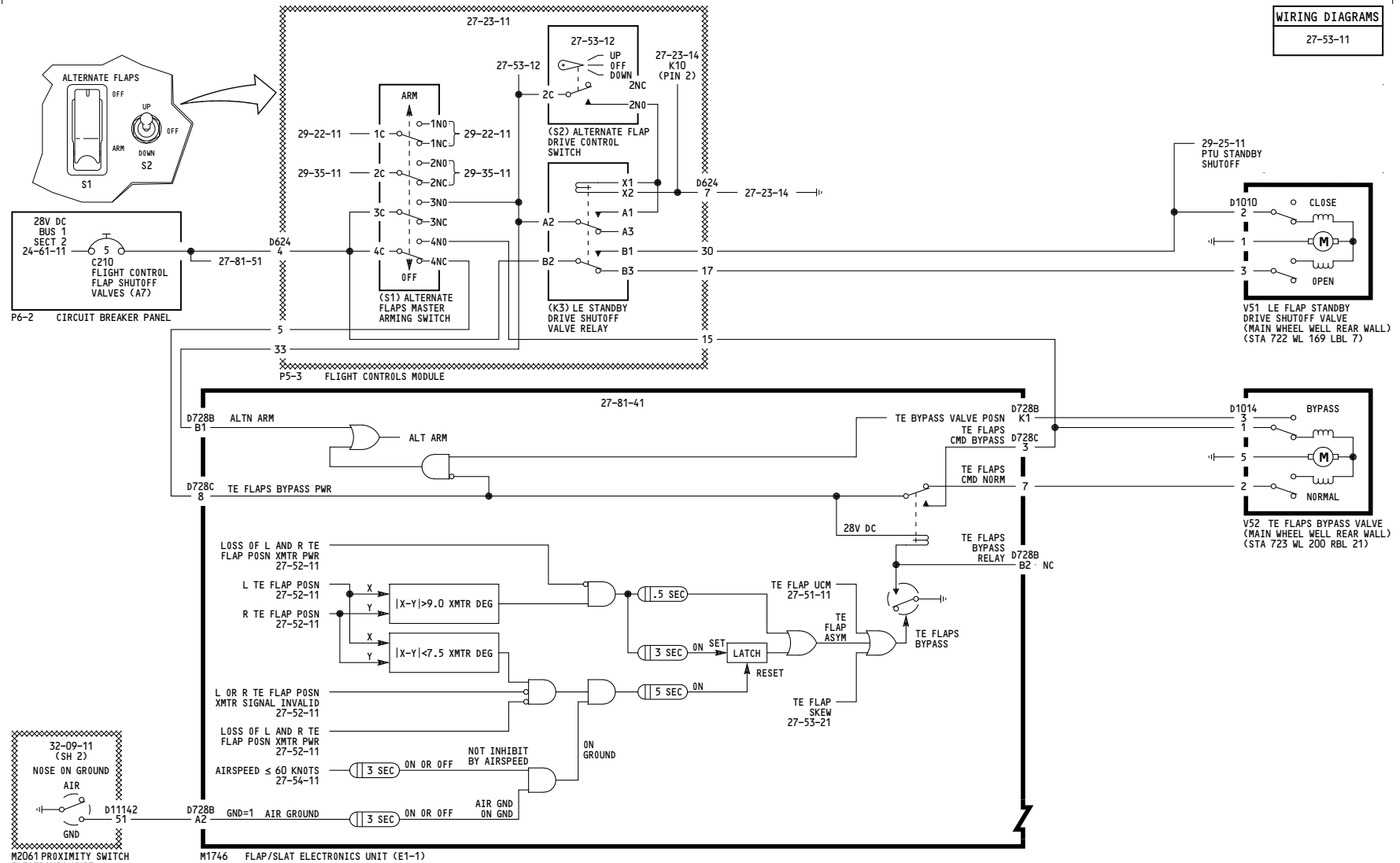
**TRAILING EDGE FLAP POSITION INDICATION**

D280A203

**27-52-11**

-E-  
3

**WIRING DIAGRAMS**  
27-53-11



YC001-YC007

**ALTERNATE TRAILING AND LEADING EDGE FLAP DRIVE**

D280A203

Incorporates  
27A1219

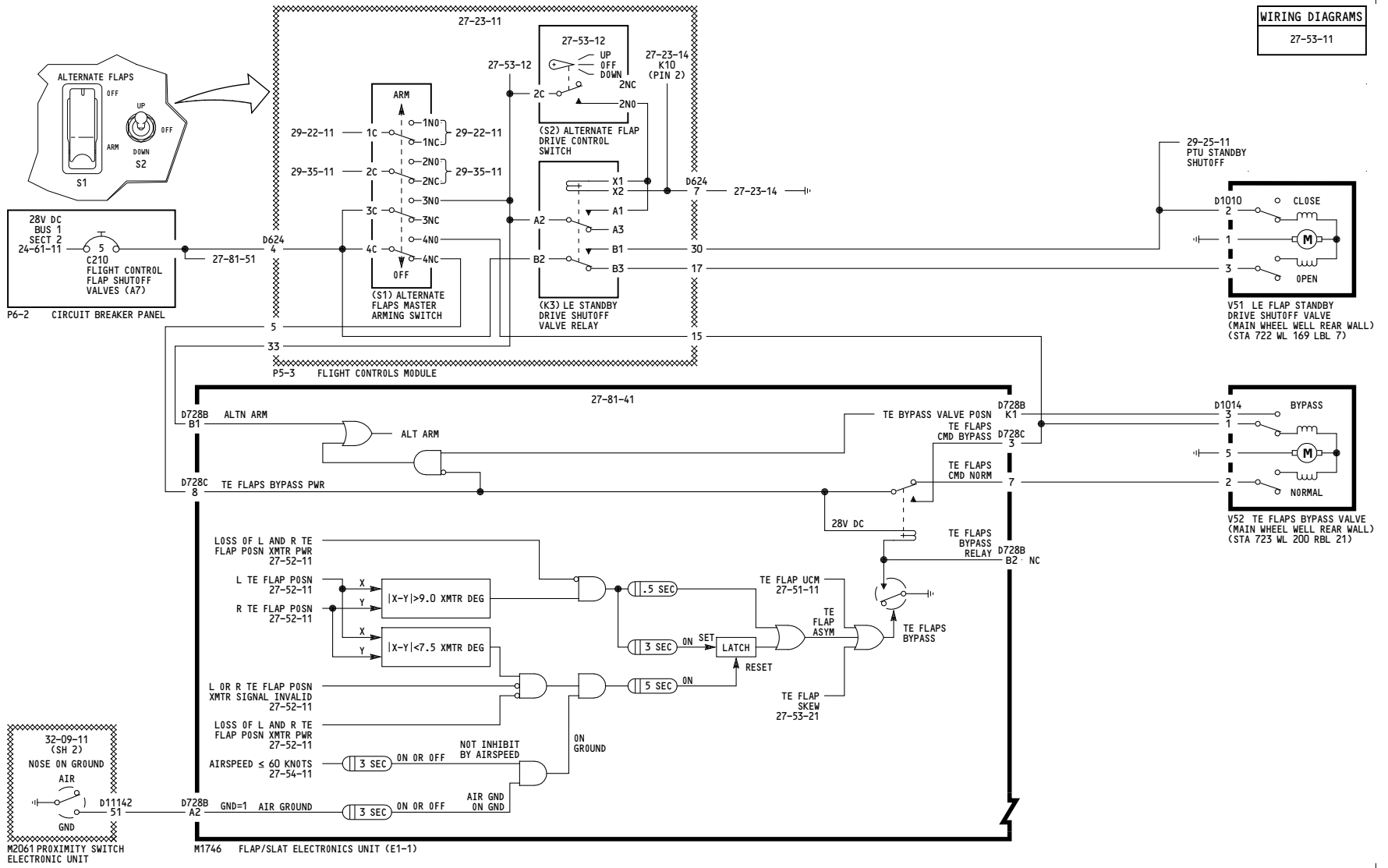
**27-53-11**

Page 101.1

Jul 17/2007

-E-  
3

WIRING DIAGRAMS  
27-53-11



YC008-YM670

**ALTERNATE TRAILING AND LEADING EDGE FLAP DRIVE**

D280A203

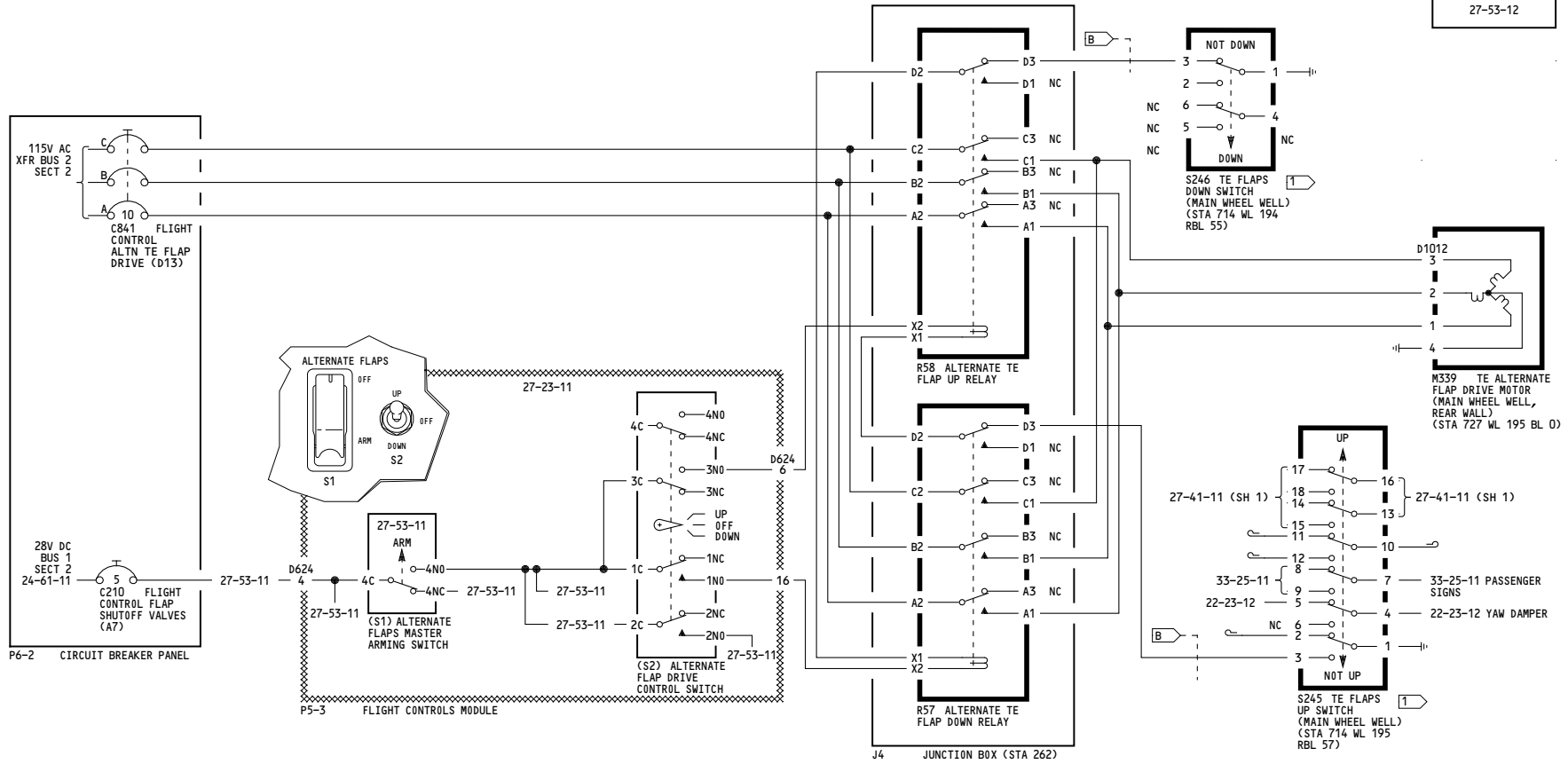
**27-53-11**

Page 102

Feb 09/2009

-N  
1

**WIRING DIAGRAMS**  
27-53-12



NOTES:  
 1 SWITCHES LOCATED ON FLAP CONTROL UNIT ASSEMBLY IN MAIN WHEEL WELL, REAR WALL, RIGHT SIDE NEAR CEILING. (27-50-01)

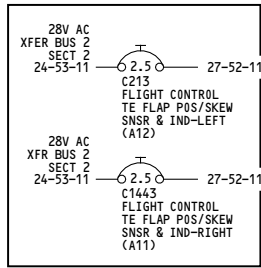
YC001-YK912, YK918-YK919, YL401-YL429, YM643-YM652	<b>TRAILING EDGE ALTERNATE FLAP DRIVE</b>
D280A203	

**27-53-12**

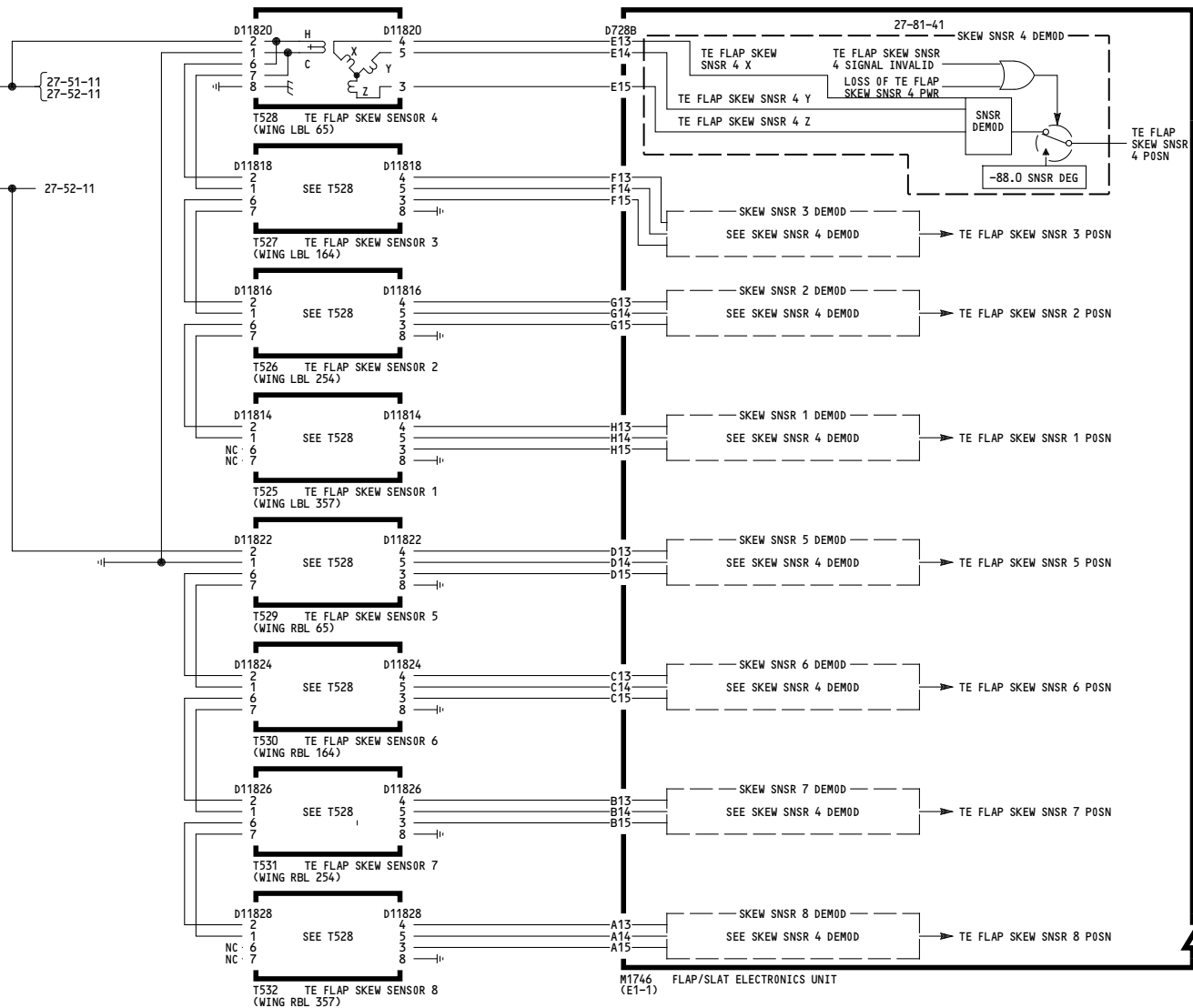
Page 101

May 11/2009

-C  
2



P6-2 CIRCUIT BREAKER PANEL

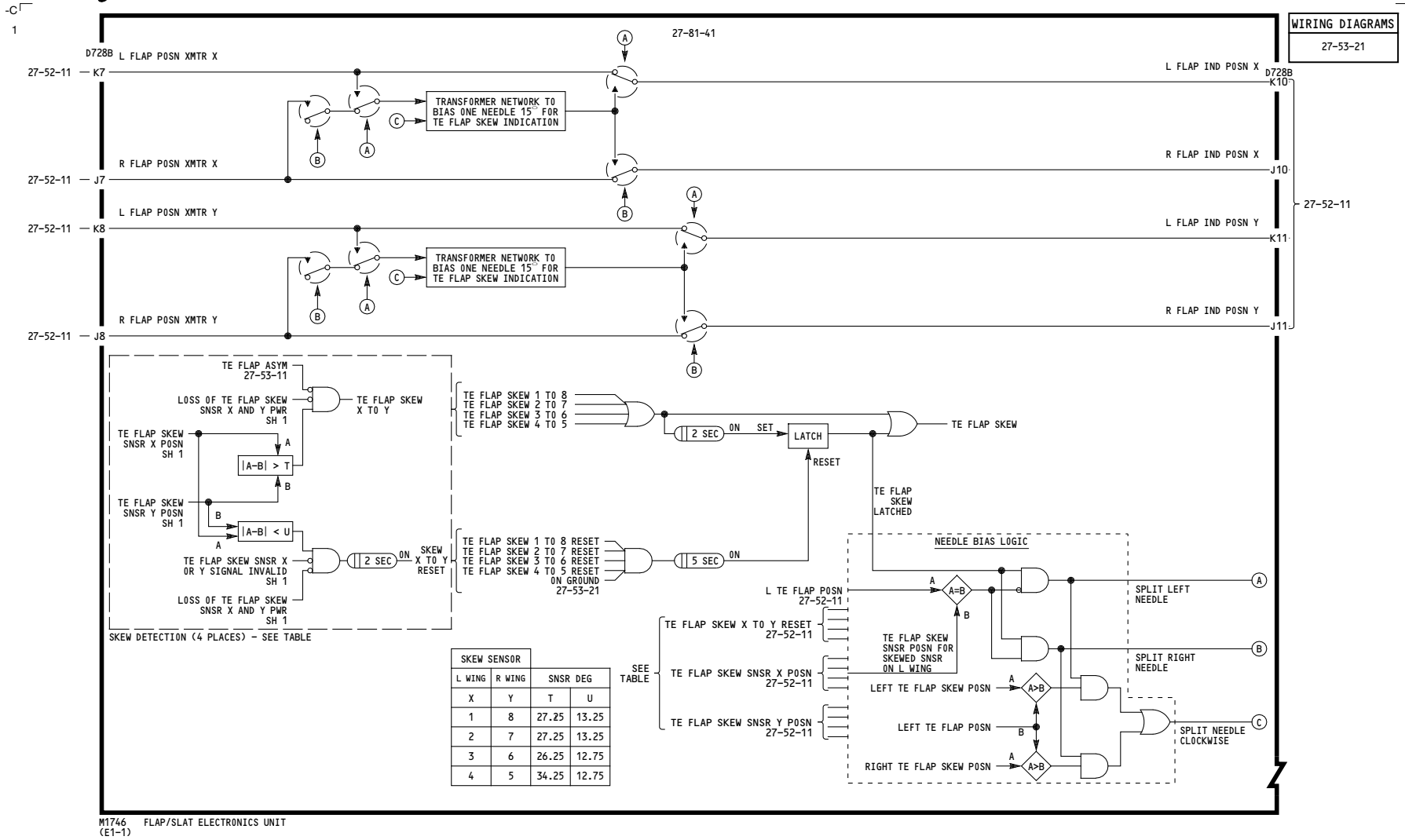


WIRING DIAGRAMS  
27-53-21

ALL	<b>TRAILING EDGE FLAP SKEW DETECTION</b>
	D280A203

**27-53-21**



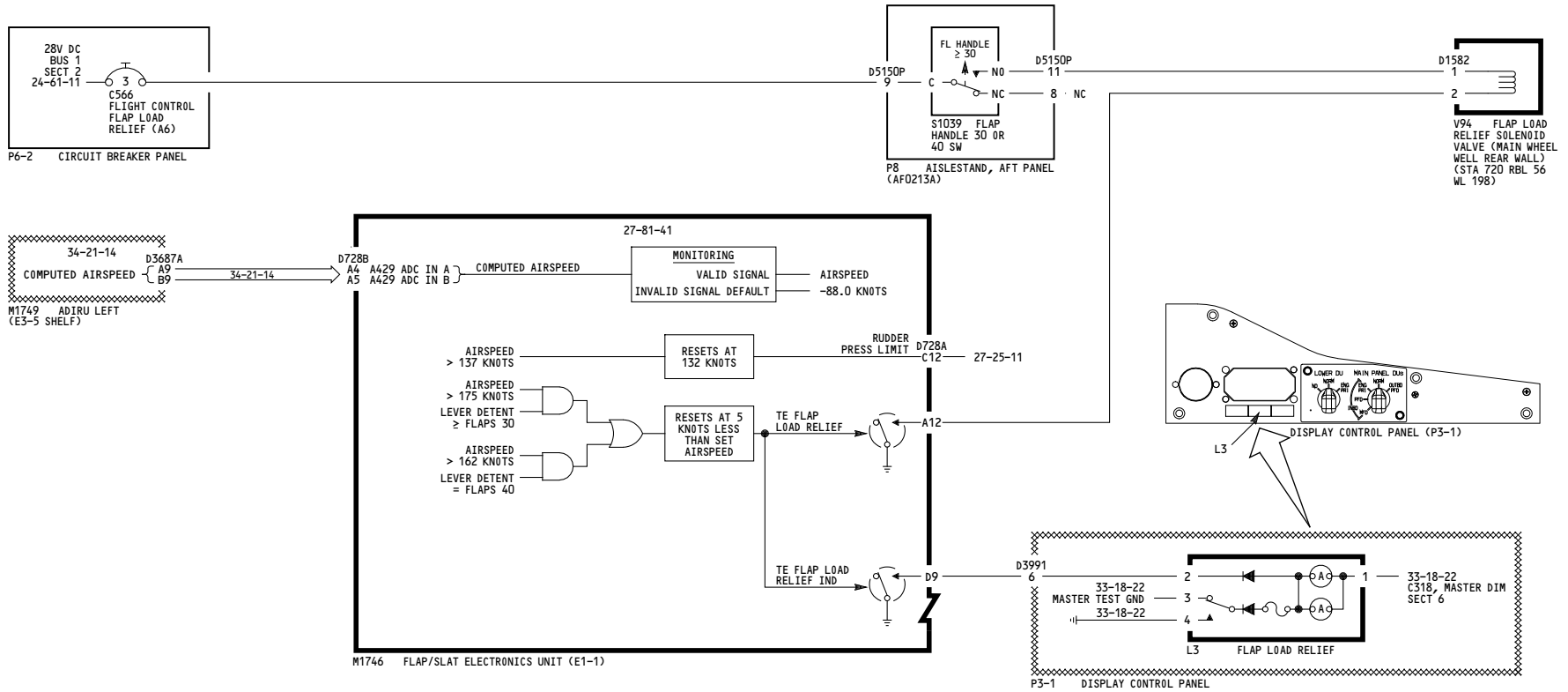


ALL

**TRAILING EDGE FLAP SKEW  
DETECTION**

D280A203

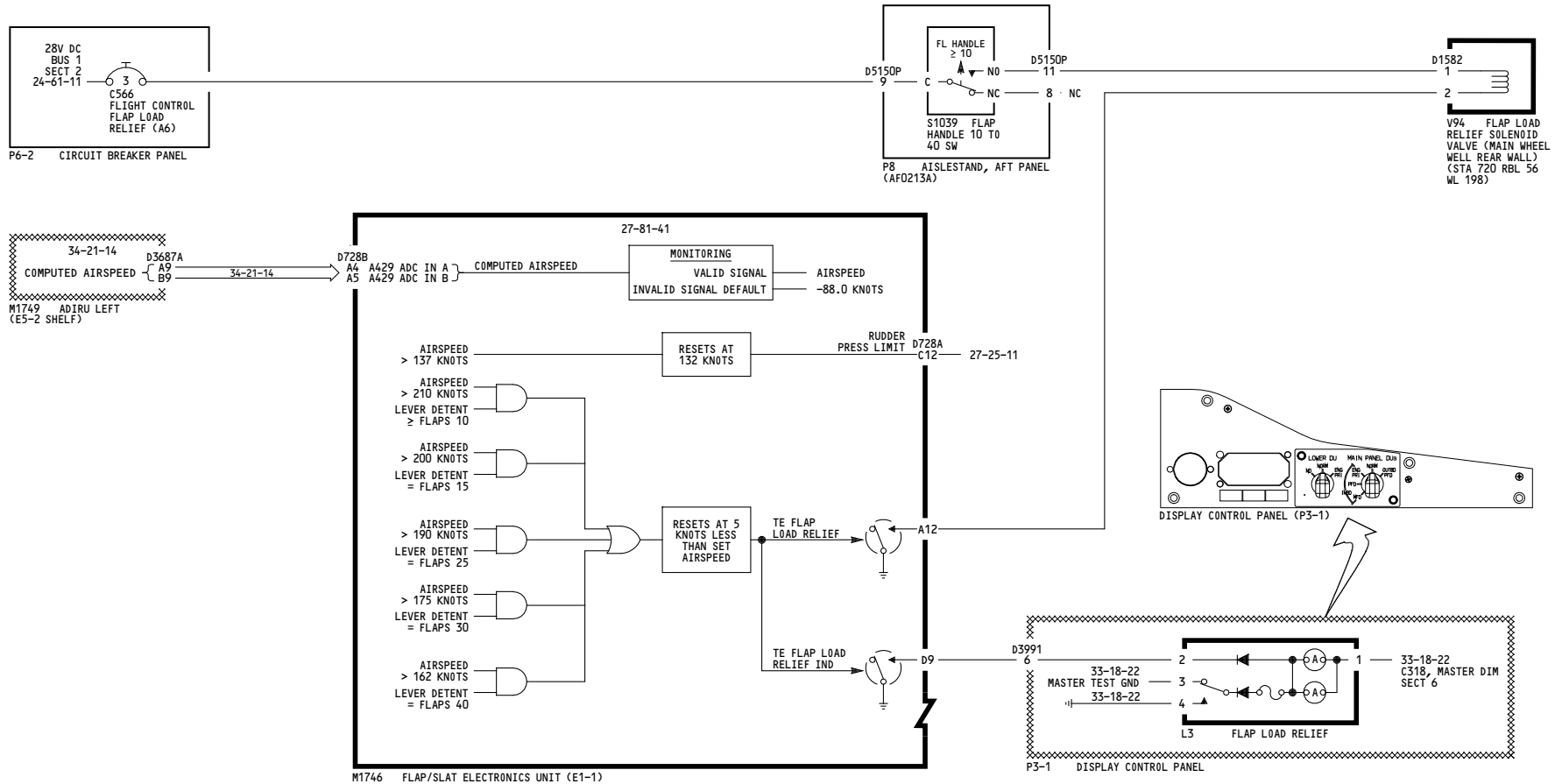
**27-53-21**



<p>YC001-YK906, YM652-YM670</p>	<p><b>TE FLAP LOAD RELIEF</b></p> <p>D280A203</p>
---------------------------------	---------------------------------------------------

-D  
5

**WIRING DIAGRAMS**  
27-54-11

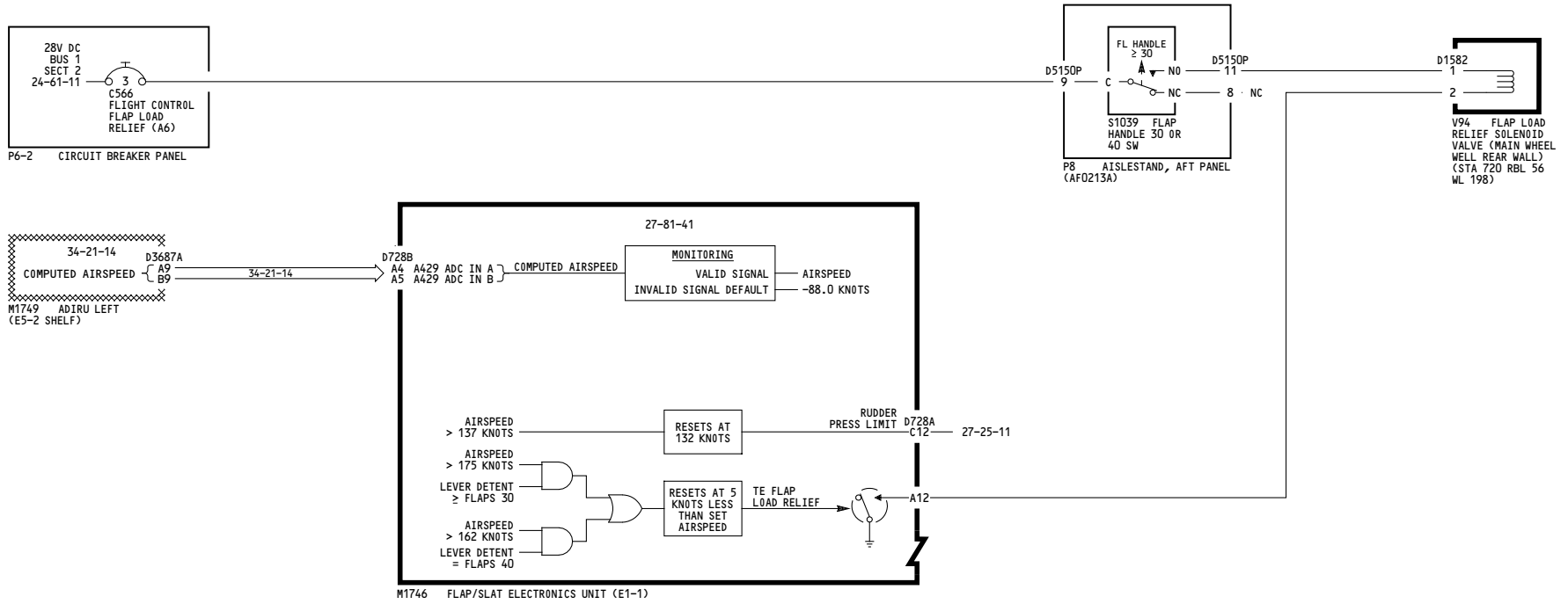


YK907-YL430	<b>TE FLAP LOAD RELIEF</b>
	D280A203

**27-54-11**

-U  
1

WIRING DIAGRAMS  
27-54-11



YM643-YM651	<p align="center"><b>TE FLAP LOAD RELIEF</b></p> <p align="center">D280A203</p>
-------------	---------------------------------------------------------------------------------

**27-54-11**

Page 103

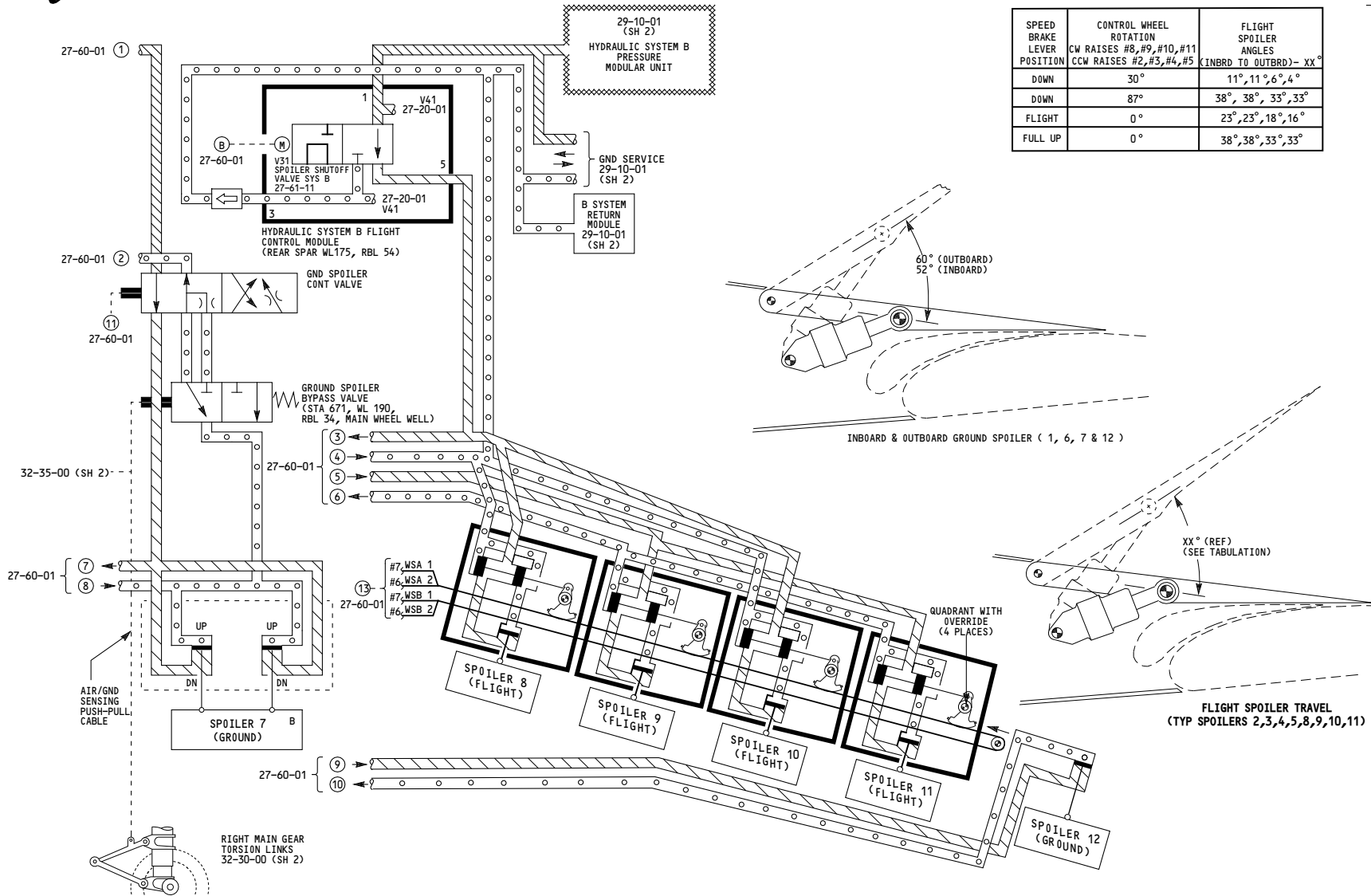
Aug 13/2008

THIS PAGE INTENTIONALLY LEFT BLANK



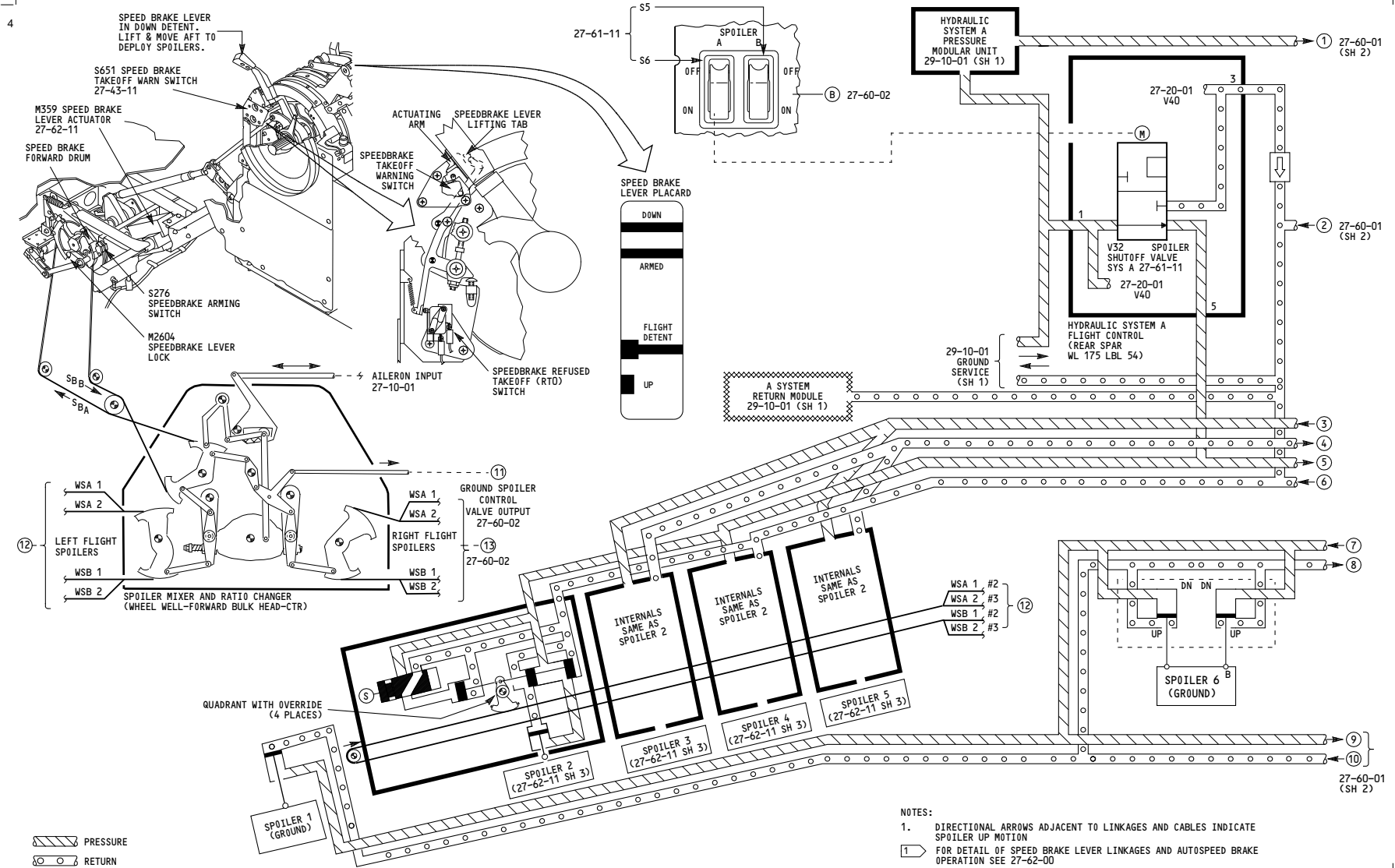
-B  
2

SPEED BRAKE LEVER POSITION	CONTROL WHEEL ROTATION CW RAISES #8,#9,#10,#11 CCW RAISES #2,#3,#4,#5	FLIGHT SPOILER ANGLES (INBRD TO OUTBRD) - XX°
DOWN	30°	11°, 11°, 6°, 4°
DOWN	87°	38°, 38°, 33°, 33°
FLIGHT	0°	23°, 23°, 18°, 16°
FULL UP	0°	38°, 38°, 33°, 33°



<p>YC001-YK906</p>	<p><b>FLIGHT CONTROL AND GROUND SPOILER</b></p> <p>D280A203</p>
--------------------	---------------------------------------------------------------------

**27-60-01**

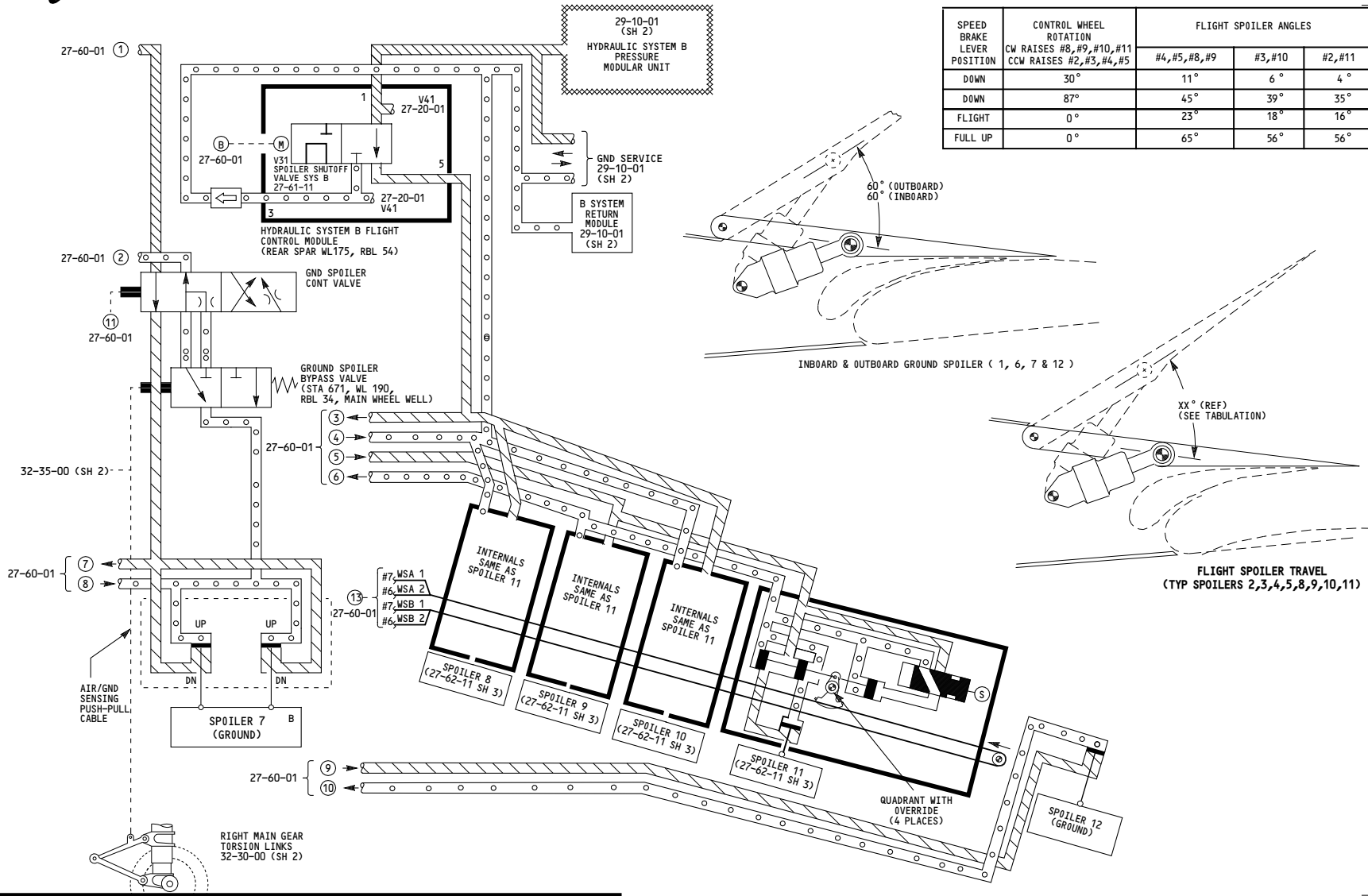


YK907-YL430	<b>FLIGHT CONTROL AND GROUND SPOILER</b>
	D280A203

**27-60-01**



3



SPEED BRAKE LEVER POSITION	CONTROL WHEEL ROTATION CW RAISES #8,#9,#10,#11 CCW RAISES #2,#3,#4,#5	FLIGHT SPOILER ANGLES		
		#4,#5,#8,#9	#3,#10	#2,#11
DOWN	30°	11°	6°	4°
DOWN	87°	45°	39°	35°
FLIGHT	0°	23°	18°	16°
FULL UP	0°	65°	56°	56°

<p>YK907-YL430</p>	<p><b>FLIGHT CONTROL AND GROUND SPOILER</b></p> <p>D280A203</p>
--------------------	---------------------------------------------------------------------

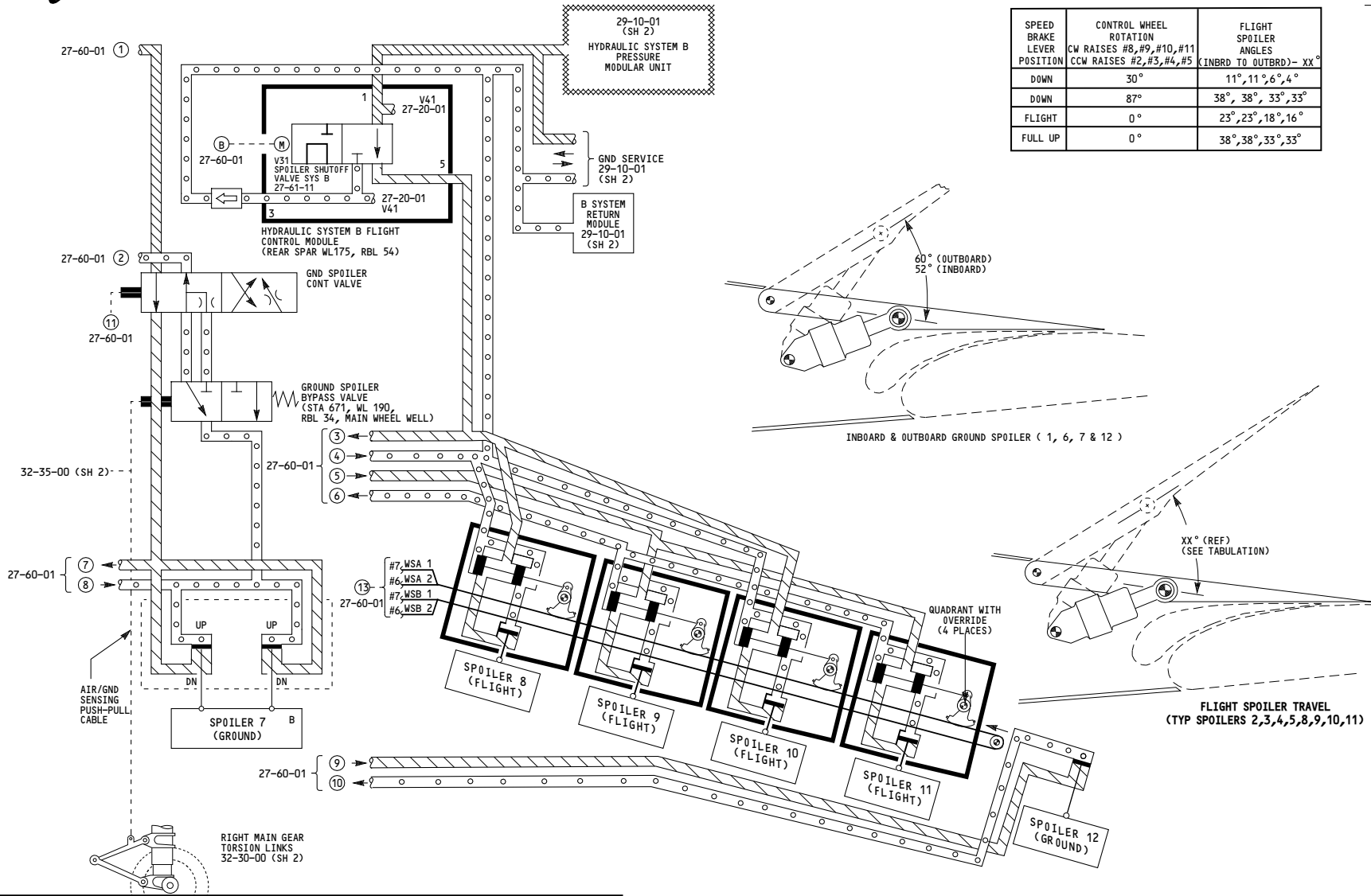
**27-60-01**

Page 102  
Sheet 2  
Feb 09/2009



-B  
2

SPEED BRAKE LEVER POSITION	CONTROL WHEEL ROTATION CW RAISES #8,#9,#10,#11 CCW RAISES #2,#3,#4,#5	FLIGHT SPOILER ANGLES (INBRD TO OUTBRD) - XX°
DOWN	30°	11°, 11°, 6°, 4°
DOWN	87°	38°, 38°, 33°, 33°
FLIGHT	0°	23°, 23°, 18°, 16°
FULL UP	0°	38°, 38°, 33°, 33°



YM643-YM670

**FLIGHT CONTROL AND  
GROUND SPOILER**

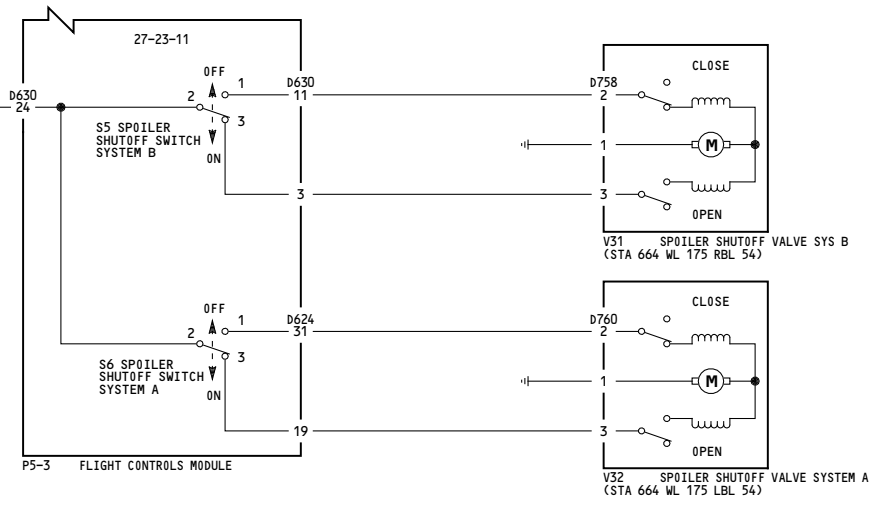
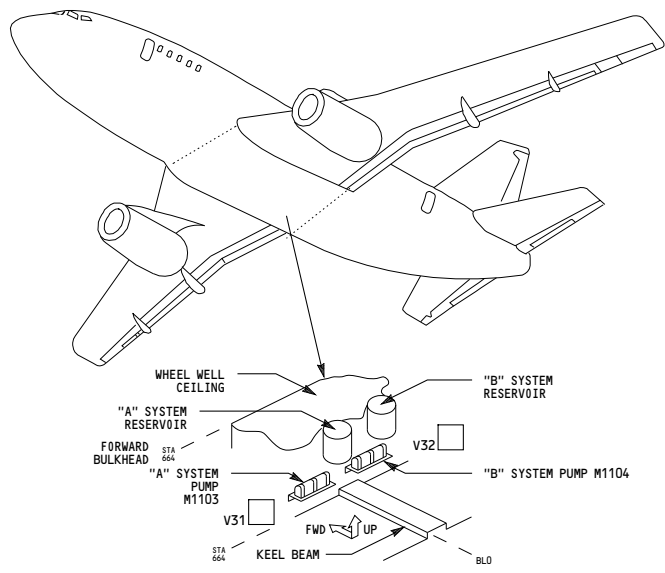
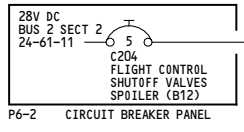
D280A203

**27-60-01**

Page 103  
Sheet 2  
Jan 14/2008

-E-  
1

WIRING DIAGRAMS  
27-61-11



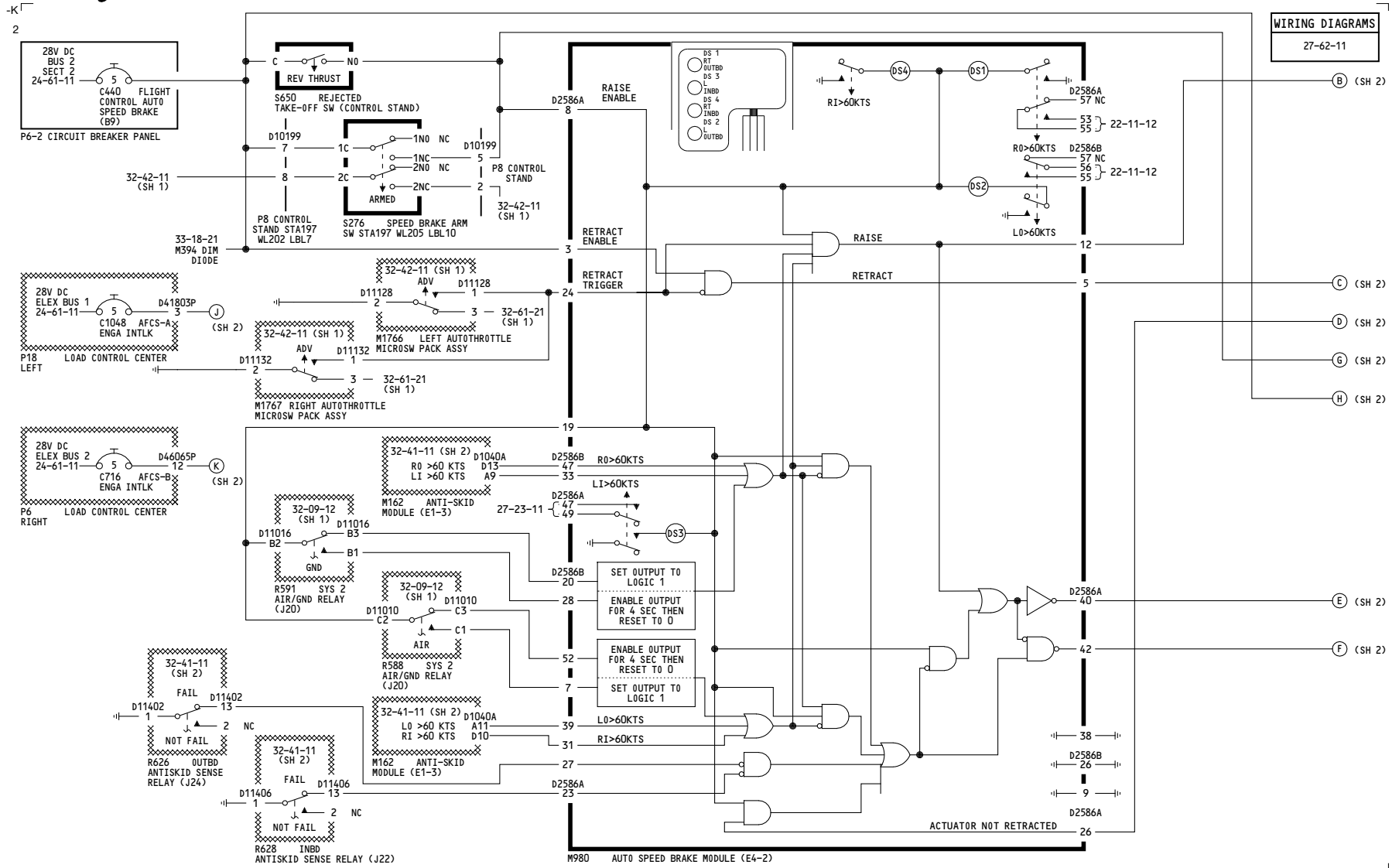
ALL	<p><b>SPOILER SHUTOFF VALVES</b></p> <p>D280A203</p>
-----	------------------------------------------------------

27-61-11

Page 101

Feb 09/2009

THIS PAGE INTENTIONALLY LEFT BLANK



WIRING DIAGRAMS  
27-62-11

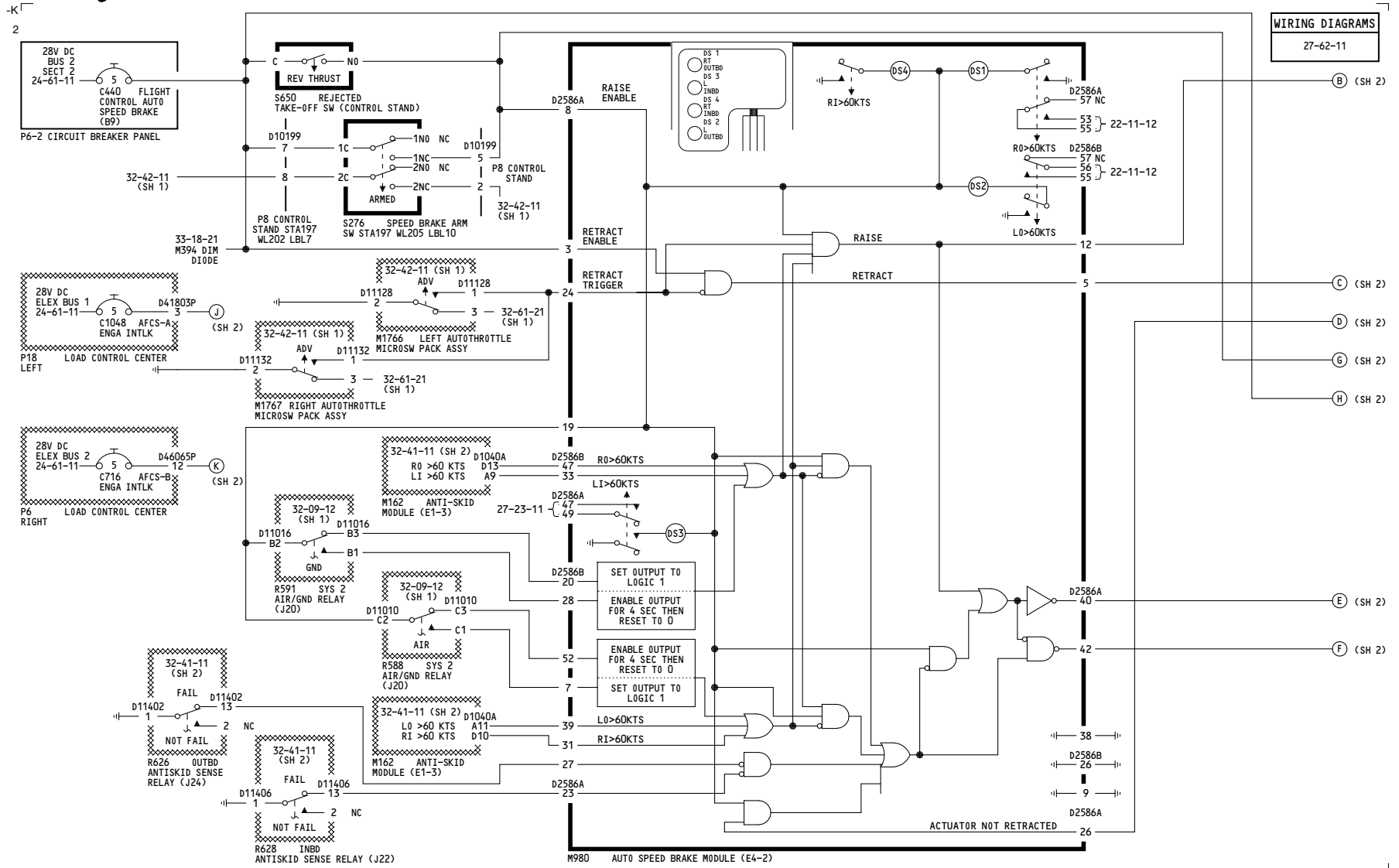
YC001-YC010, YC012-YC030

**AUTOMATIC GROUND SPEEDBRAKE CONTROL**

D280A203

**27-62-11**





WIRING DIAGRAMS  
27-62-11

YC001-YC010, YC012-YC030

**AUTOMATIC GROUND SPEEDBRAKE CONTROL**

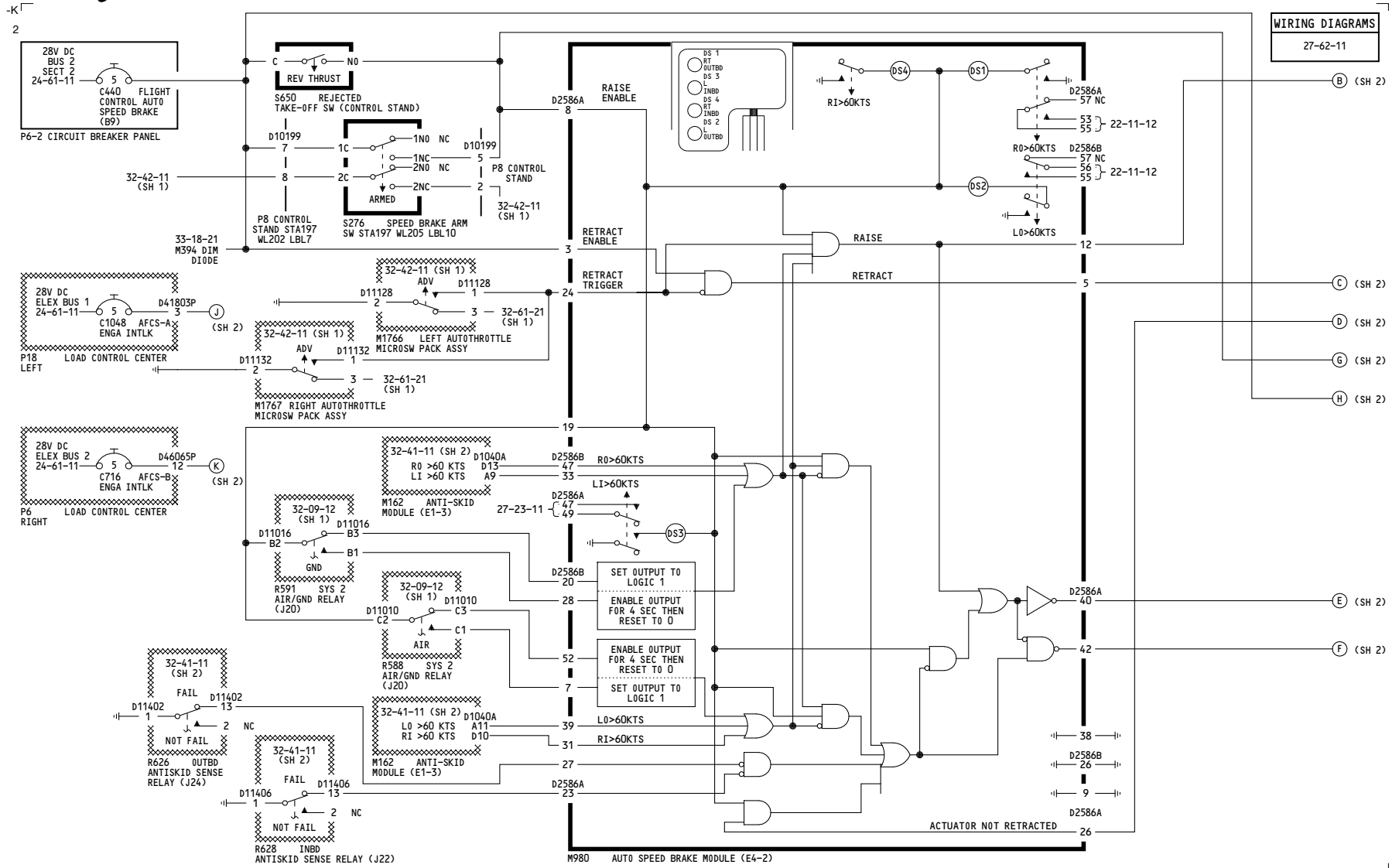
D280A203

**27-62-11**

Page 101.1  
Sheet 1  
May 13/2008





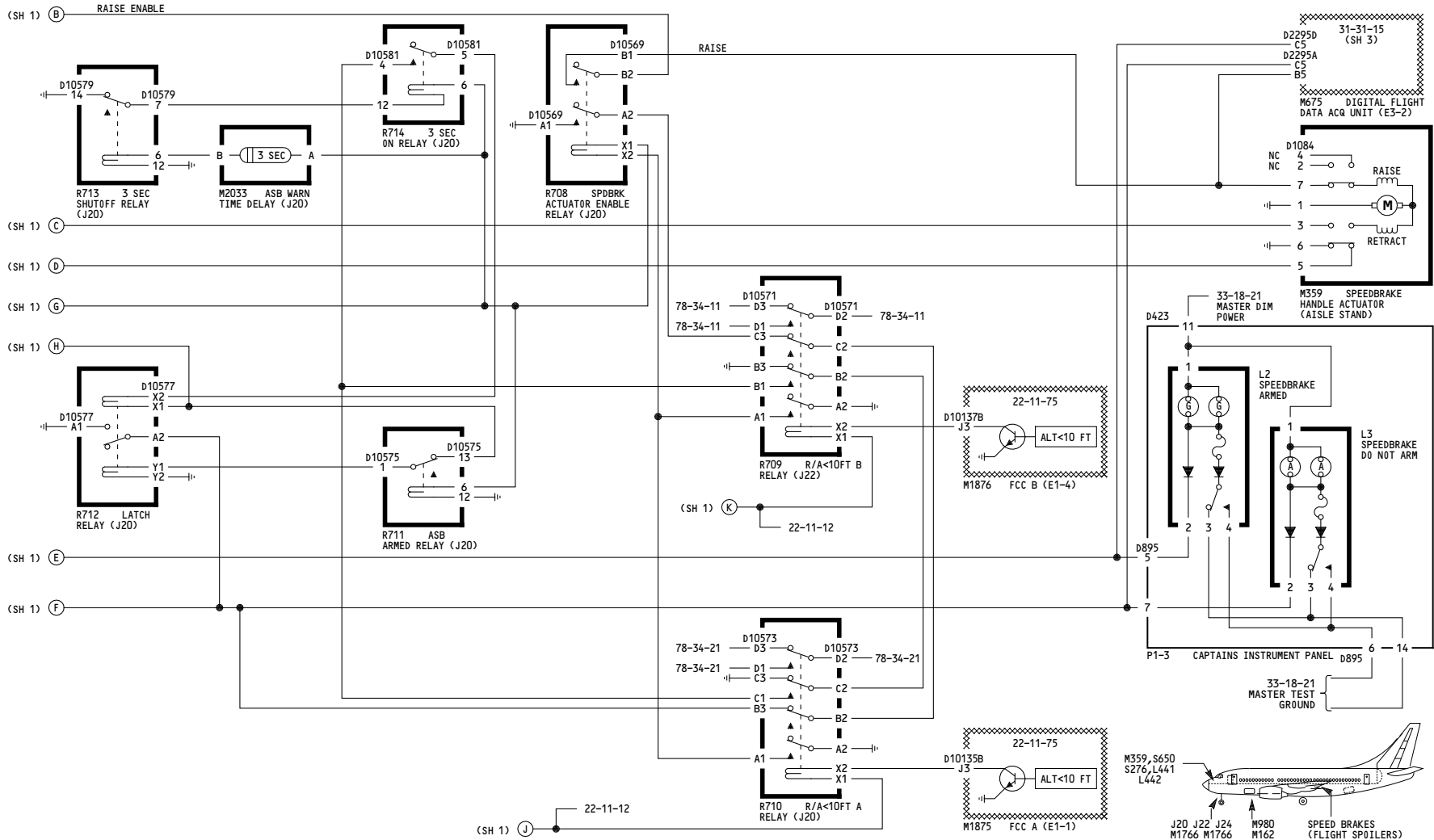


WIRING DIAGRAMS  
27-62-11

YC011, YC031-YK906	<b>AUTOMATIC GROUND SPEEDBRAKE CONTROL</b>  D280A203
--------------------	----------------------------------------------------------------

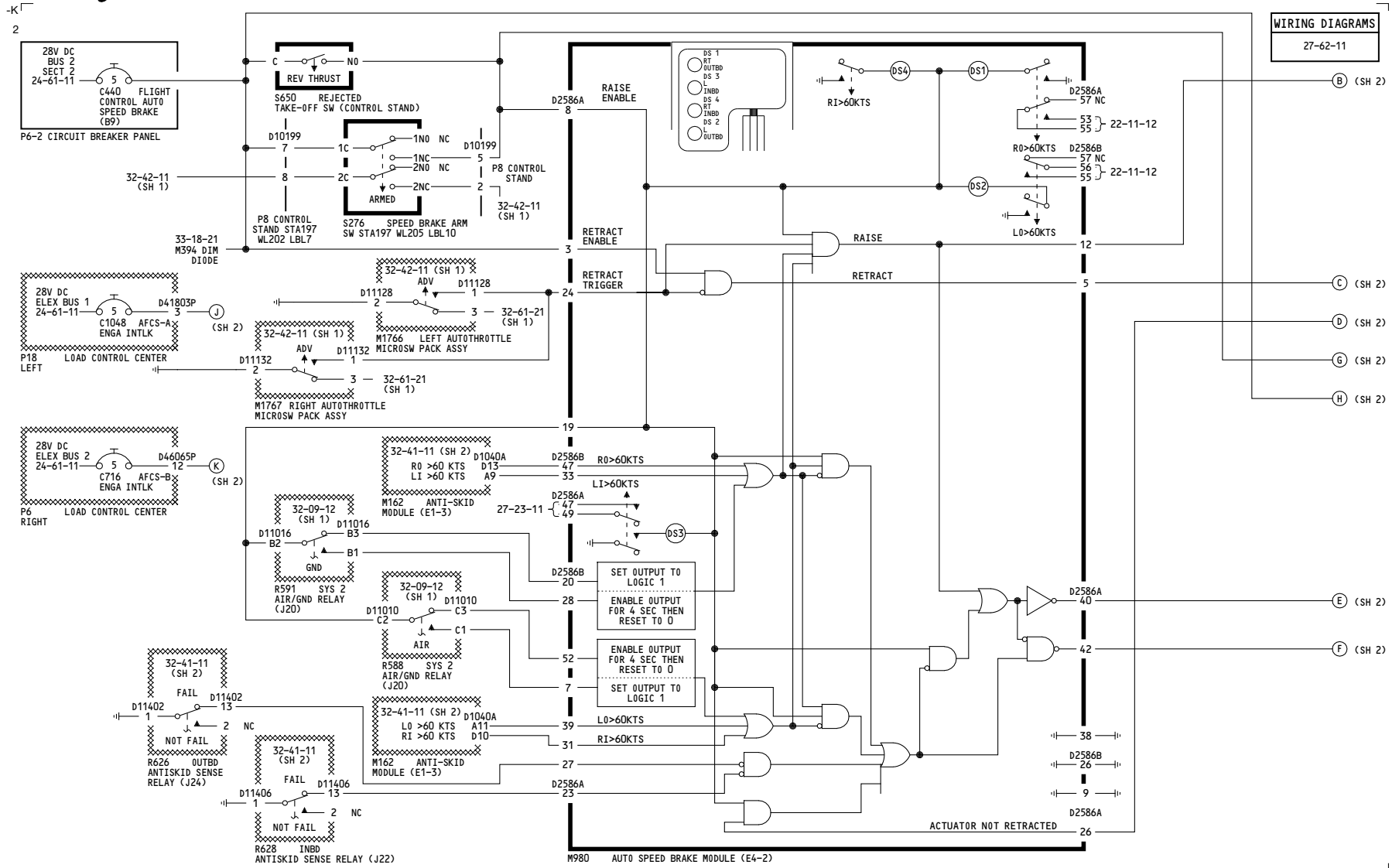
**27-62-11**

-G  
1



<p>YC011, YC031-YK906</p>	<p><b>AUTOMATIC GROUND SPEEDBRAKE CONTROL</b></p> <p>D280A203</p>
---------------------------	-----------------------------------------------------------------------

**27-62-11**

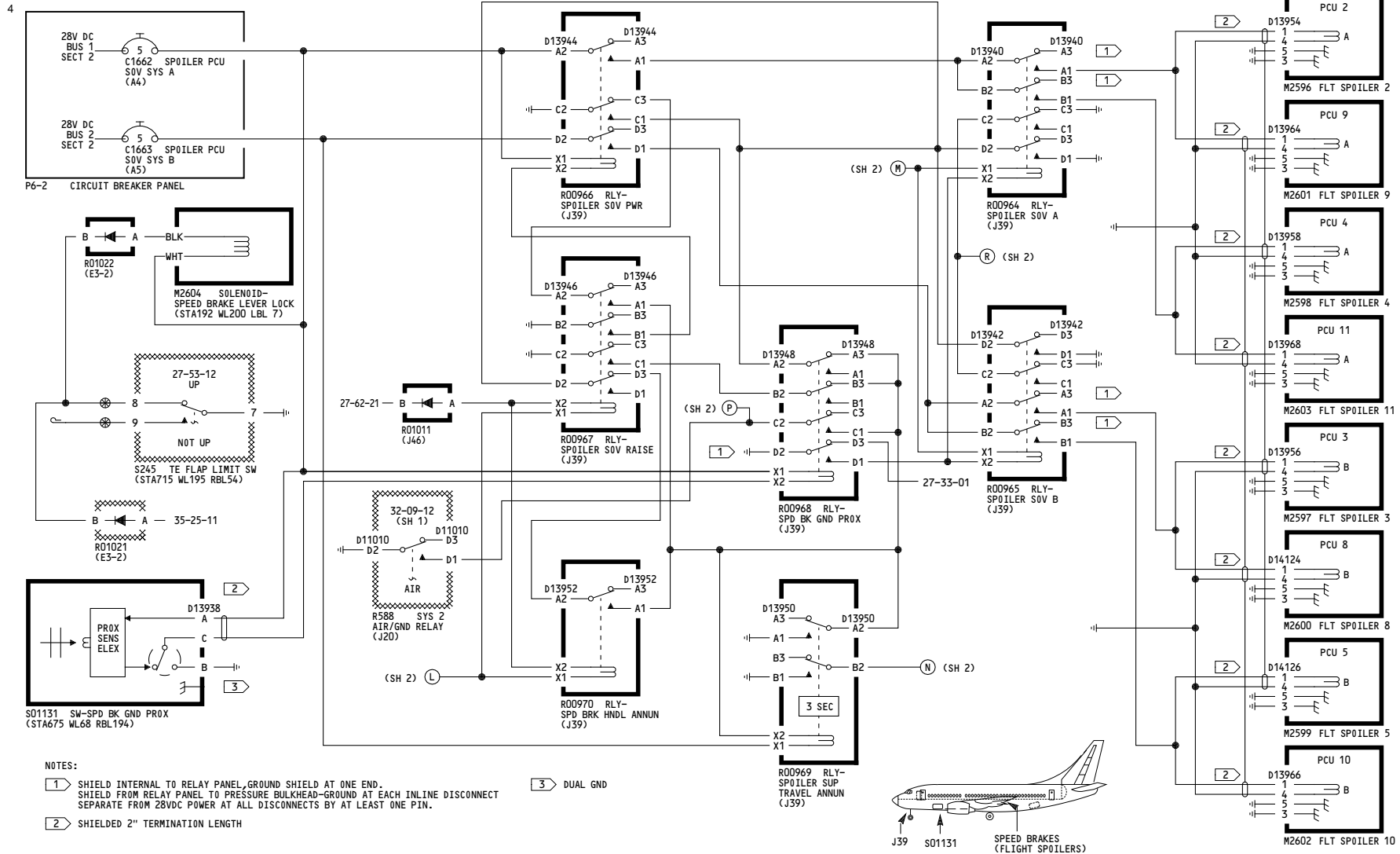


<p>YK907</p>	<p><b>AUTOMATIC GROUND SPEEDBRAKE CONTROL</b></p> <p>D280A203</p>
--------------	-----------------------------------------------------------------------

**27-62-11**

Page 103.1  
Sheet 1  
Feb 09/2009





- NOTES:**
- 1 SHIELD INTERNAL TO RELAY PANEL, GROUND SHIELD AT ONE END. SHIELD FROM RELAY PANEL TO PRESSURE BULKHEAD-GROUND AT EACH INLINE DISCONNECT SEPARATE FROM 28VDC POWER AT ALL DISCONNECTS BY AT LEAST ONE PIN.
  - 2 SHIELDED 2" TERMINATION LENGTH
  - 3 DUAL GND

YK907

**AUTOMATIC GROUND SPEEDBRAKE CONTROL**

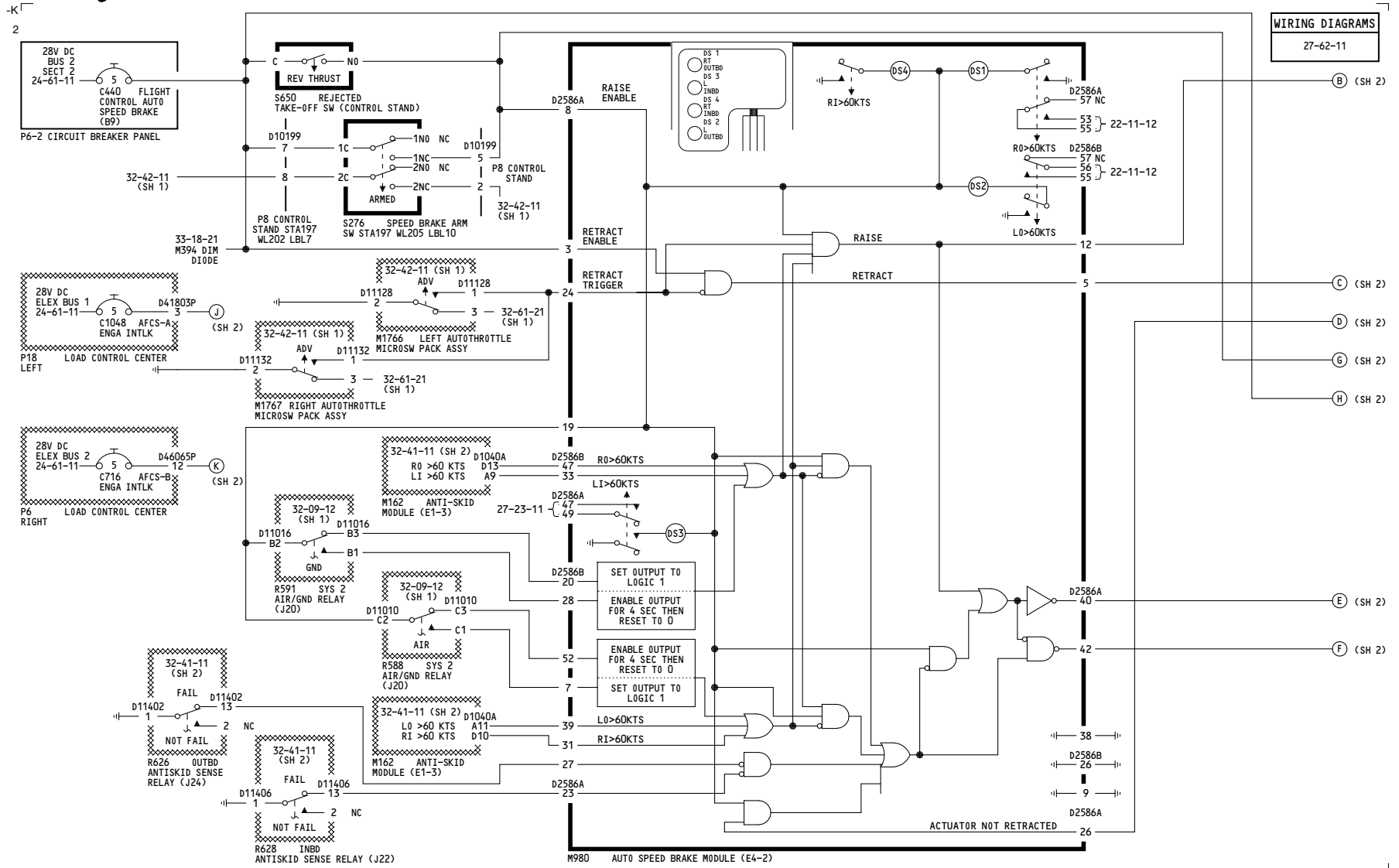
D280A203

Incorporates  
 27-1285

**27-62-11**

Page 103.1  
 Sheet 3  
 Feb 09/2009

THIS PAGE INTENTIONALLY LEFT BLANK



WIRING DIAGRAMS  
27-62-11

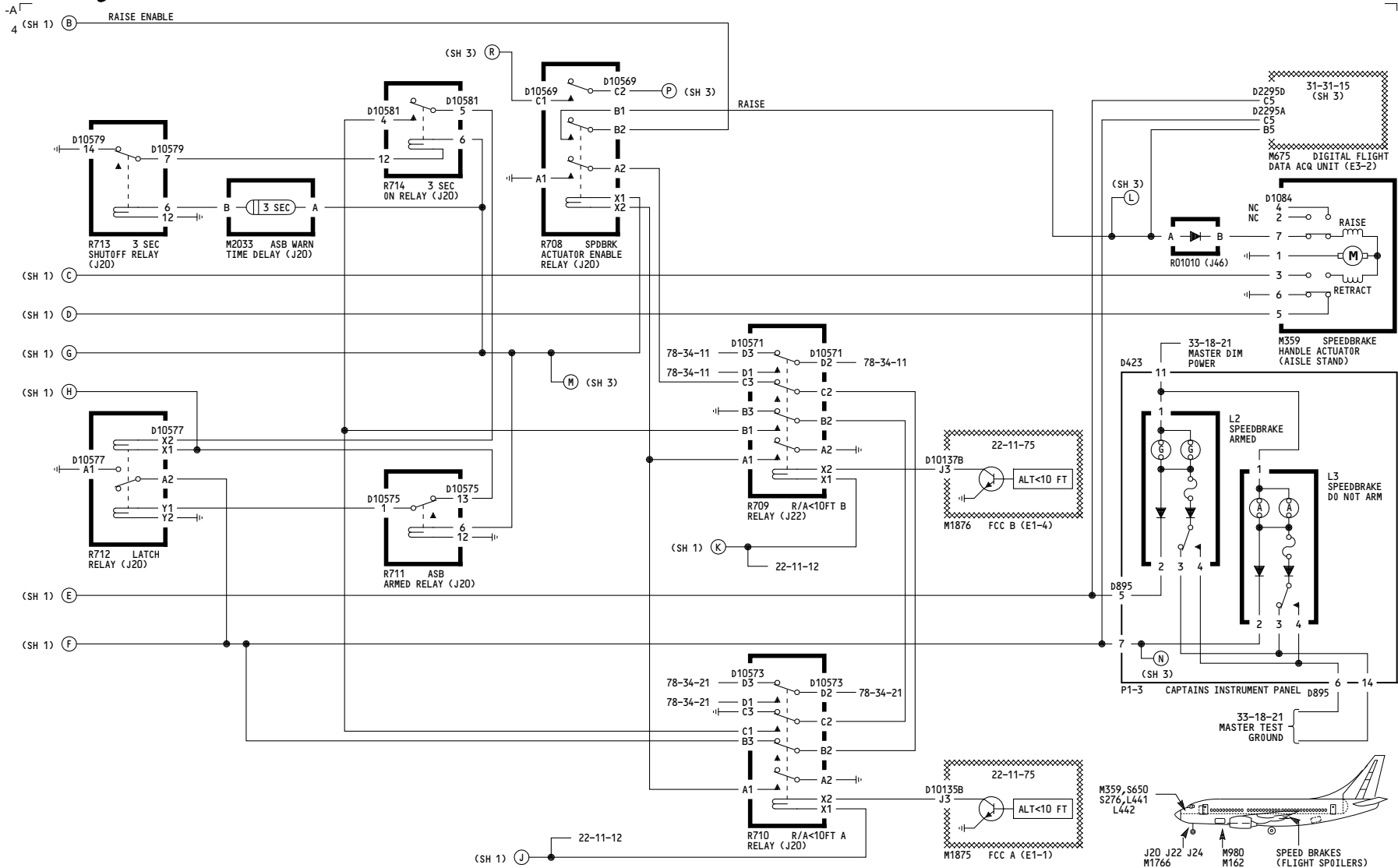
YK908-YL401, YL422-YL430

**AUTOMATIC GROUND SPEEDBRAKE CONTROL**

D280A203

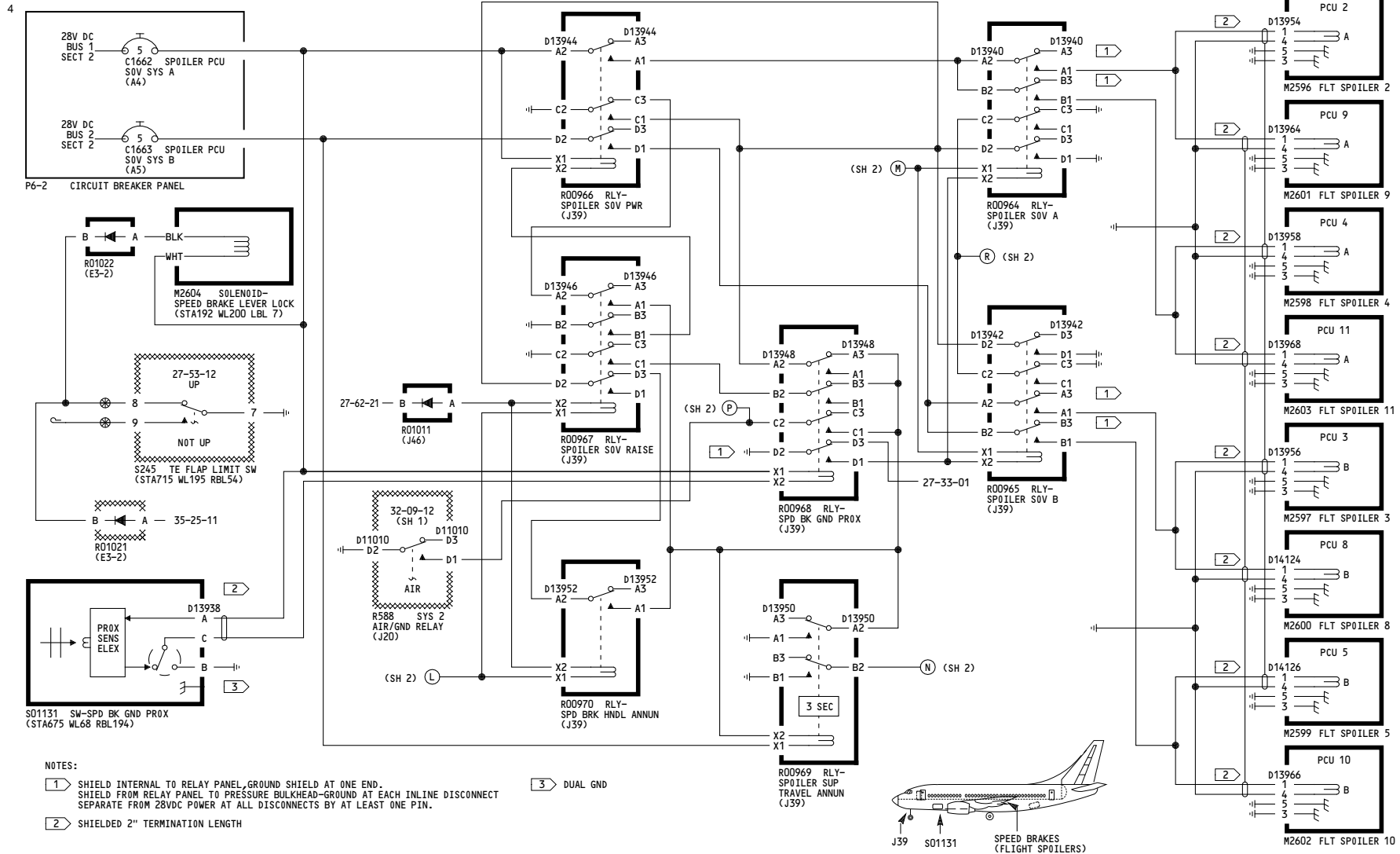
**27-62-11**





<p>YK908-YL401, YL422-YL430</p>	<p><b>AUTOMATIC GROUND SPEEDBRAKE CONTROL</b></p> <p>D280A203</p>
---------------------------------	-----------------------------------------------------------------------

**27-62-11**



- NOTES:
- 1 SHIELD INTERNAL TO RELAY PANEL, GROUND SHIELD AT ONE END. SHIELD FROM RELAY PANEL TO PRESSURE BULKHEAD-GROUND AT EACH INLINE DISCONNECT SEPARATE FROM 28VDC POWER AT ALL DISCONNECTS BY AT LEAST ONE PIN.
  - 2 SHIELDED 2" TERMINATION LENGTH
  - 3 DUAL GND

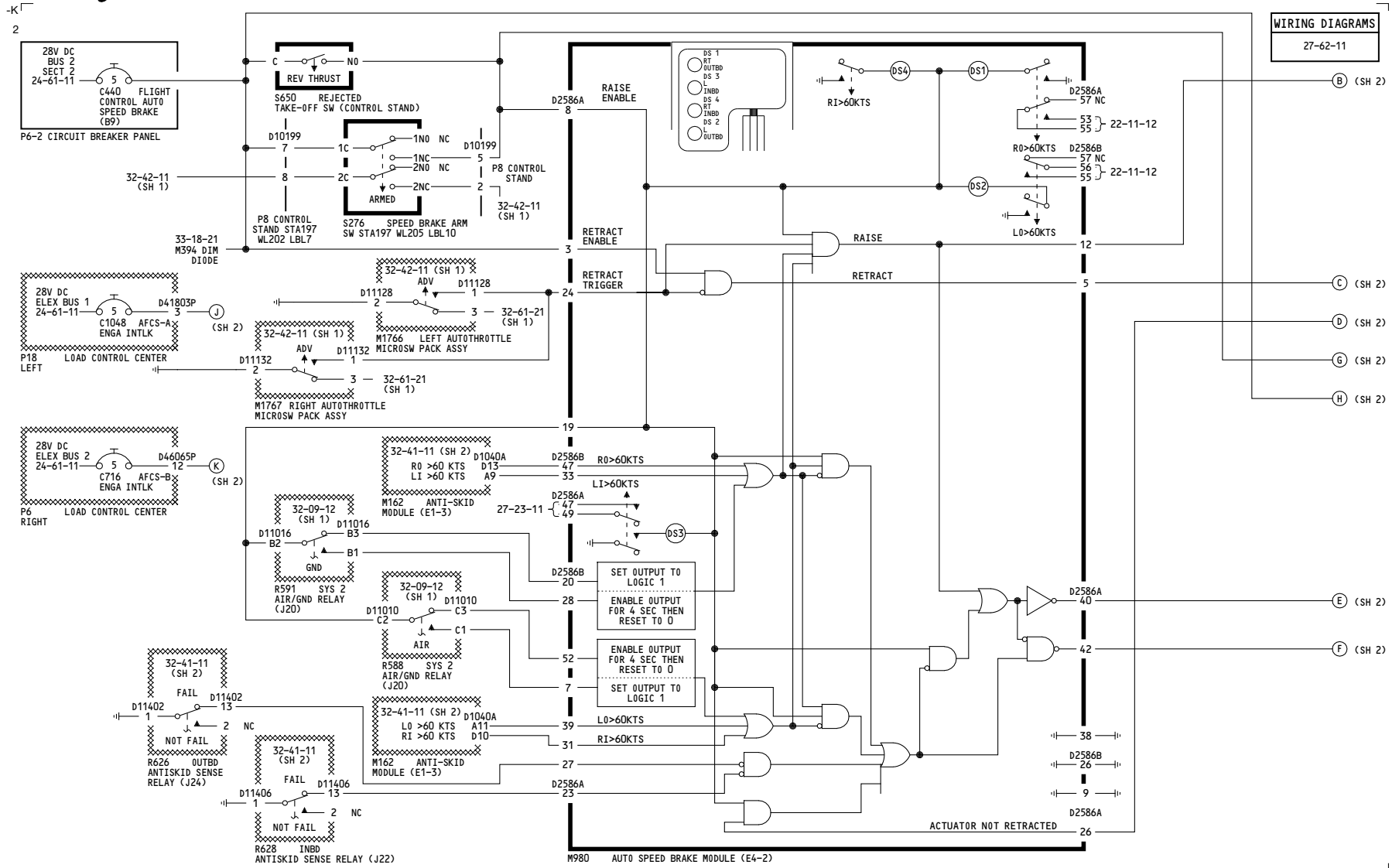
YK908-YL401, YL422-YL430

**AUTOMATIC GROUND SPEEDBRAKE CONTROL**

D280A203

27-62-11

THIS PAGE INTENTIONALLY LEFT BLANK



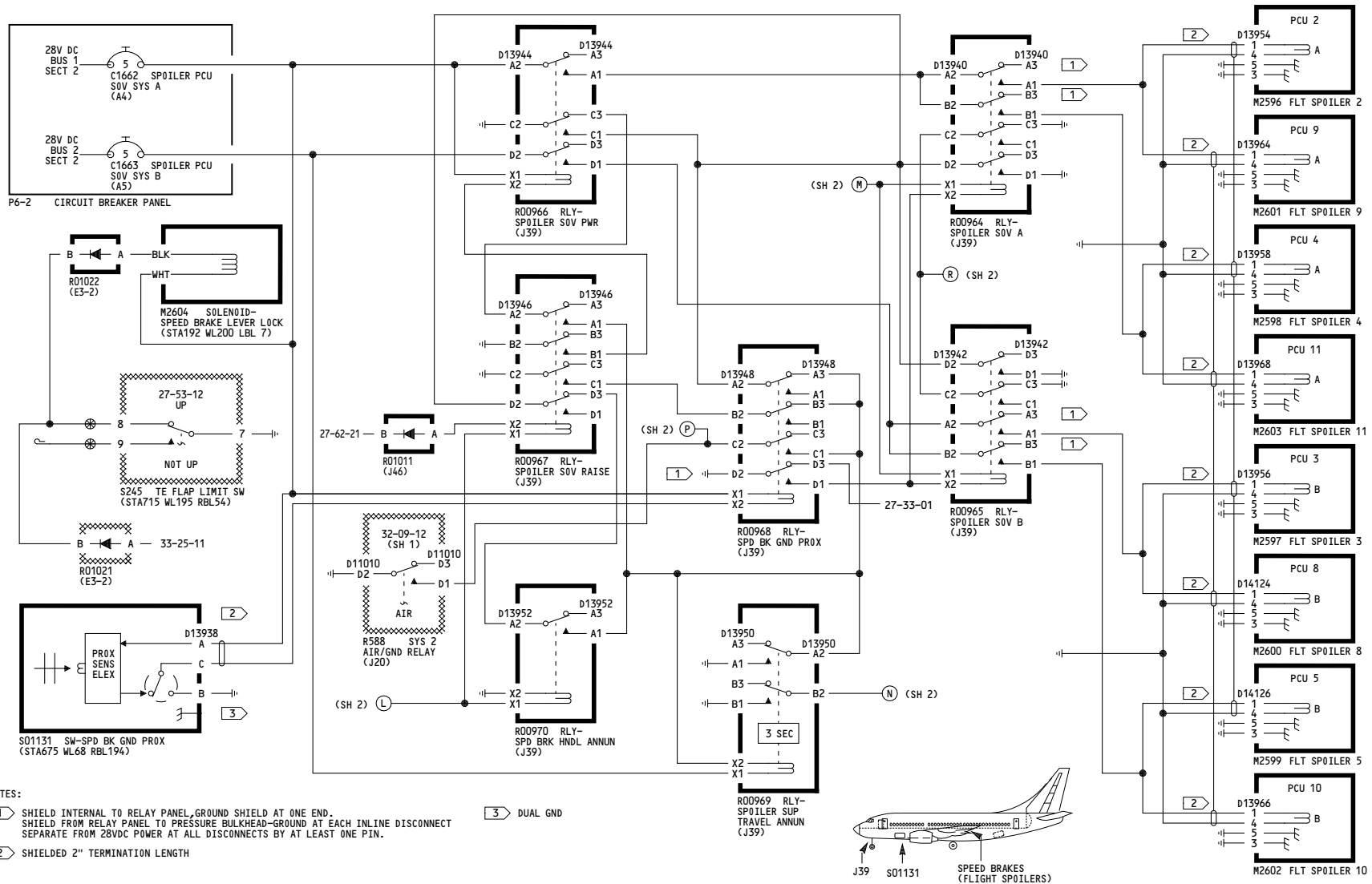
WIRING DIAGRAMS  
27-62-11

YL421	<p><b>AUTOMATIC GROUND SPEEDBRAKE CONTROL</b></p> <p>D280A203</p>
-------	-----------------------------------------------------------------------

**27-62-11**



-P  
3



- NOTES:
- 1 SHIELD INTERNAL TO RELAY PANEL, GROUND SHIELD AT ONE END. SHIELD FROM RELAY PANEL TO PRESSURE BULKHEAD-GROUND AT EACH INLINE DISCONNECT SEPARATE FROM 28VDC POWER AT ALL DISCONNECTS BY AT LEAST ONE PIN.
  - 2 SHIELDED 2" TERMINATION LENGTH
  - 3 DUAL GND

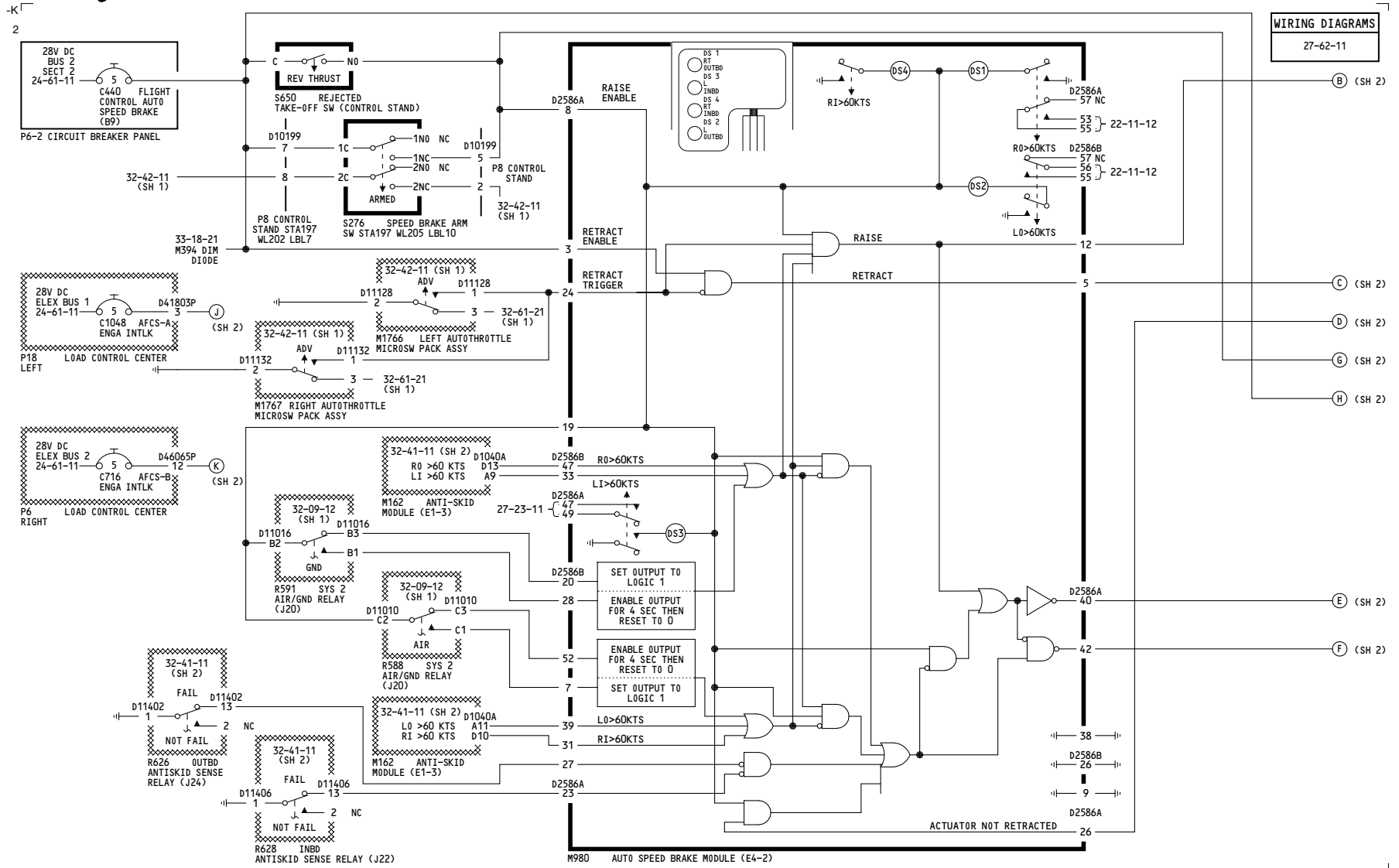
YL421

**AUTOMATIC GROUND SPEEDBRAKE CONTROL**

D280A203

**27-62-11**

THIS PAGE INTENTIONALLY LEFT BLANK



WIRING DIAGRAMS  
27-62-11

YM643-YM670

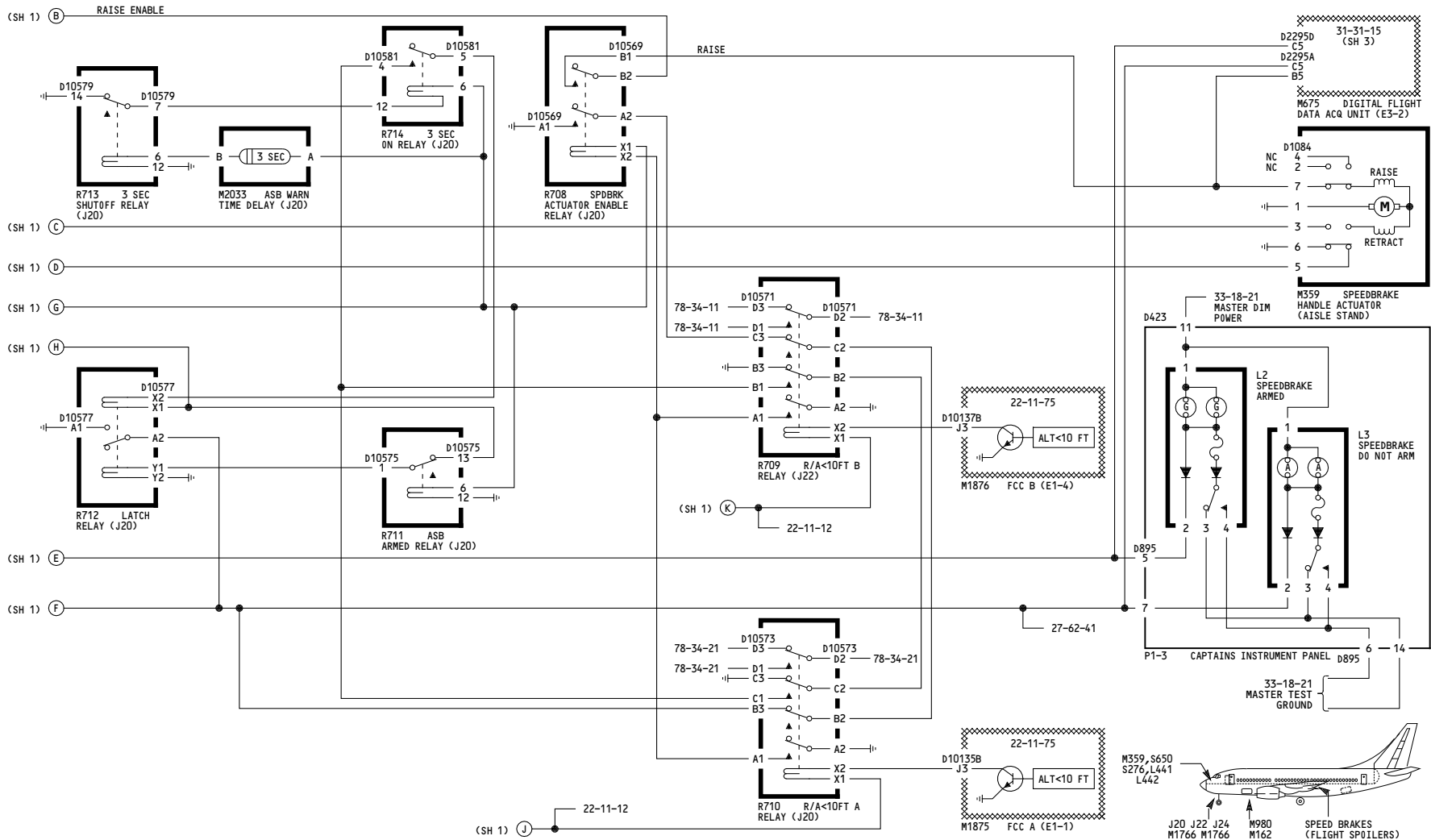
**AUTOMATIC GROUND SPEEDBRAKE CONTROL**

D280A203

**27-62-11**



2



YM643-YM670

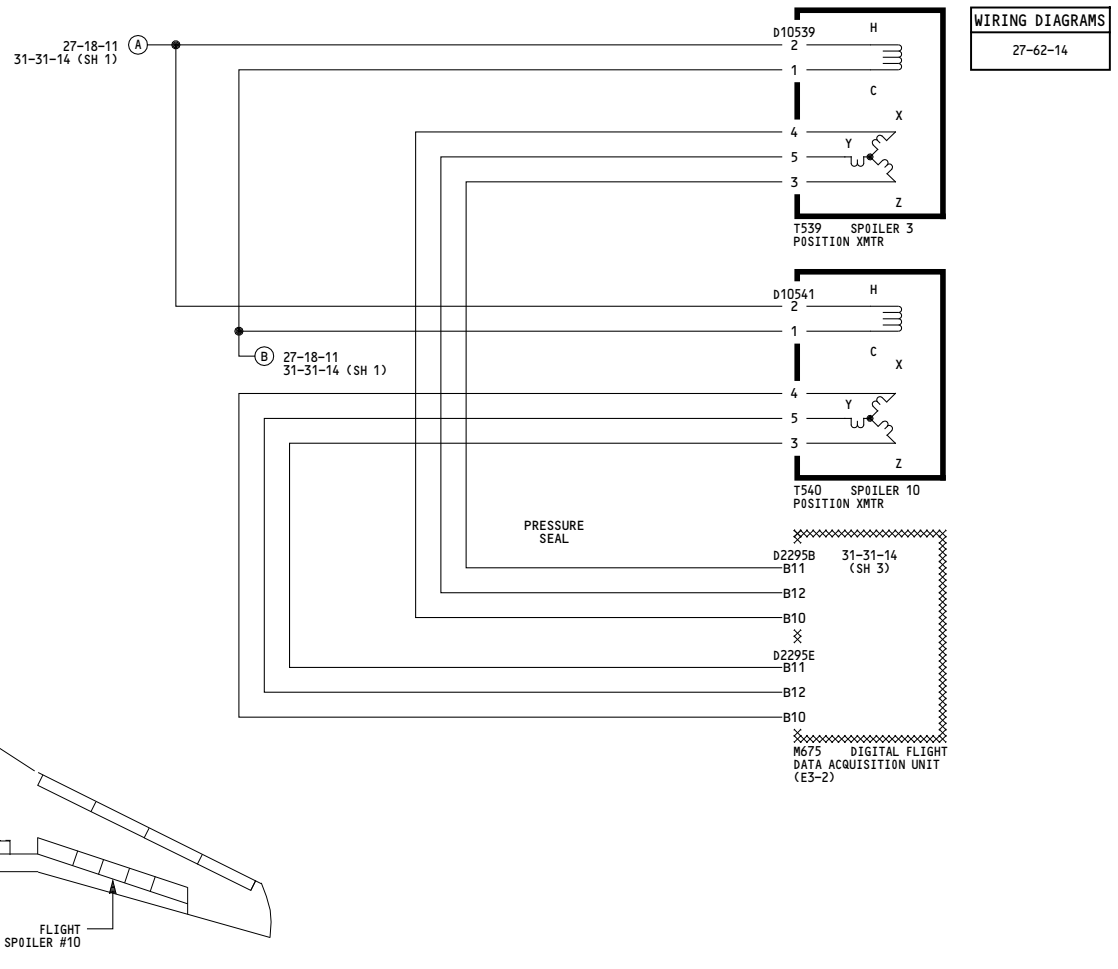
**AUTOMATIC GROUND SPEEDBRAKE CONTROL**

D280A203

**27-62-11**

Page 106  
Sheet 2  
Feb 09/2009

-A  
1



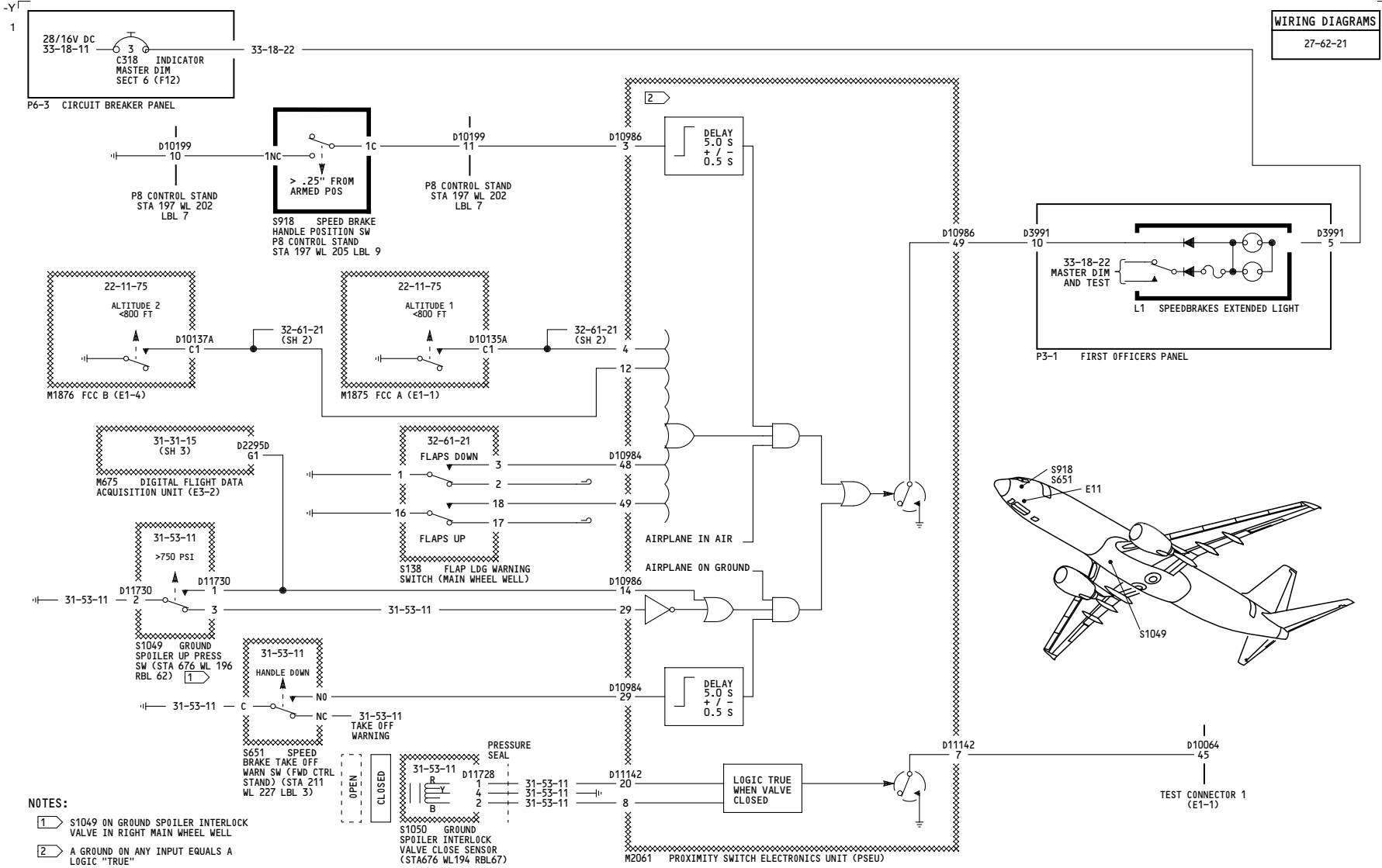
ALL	<p><b>SPOILER POSITION INDICATION</b></p> <p>D280A203</p>
-----	-----------------------------------------------------------

27-62-14

Page 101

Feb 09/2009

WIRING DIAGRAMS  
27-62-21

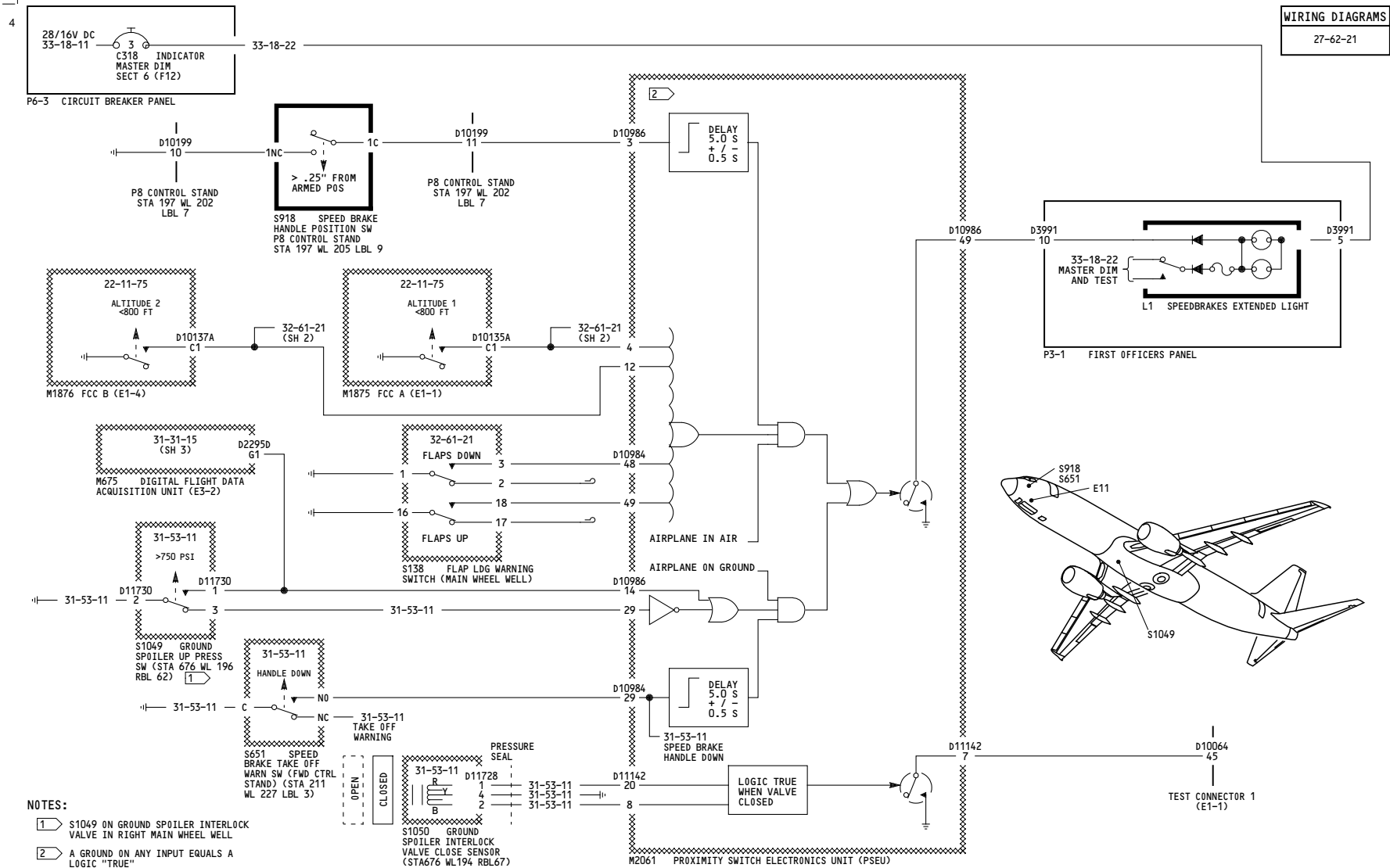


- NOTES:
- 1 S1049 ON GROUND SPOILER INTERLOCK VALVE IN RIGHT MAIN WHEEL WELL
  - 2 A GROUND ON ANY INPUT EQUALS A LOGIC "TRUE"

YC001-YC030, YK901-YK906	<b>SPEEDBRAKE DEPLOYED INDICATION</b>
<b>D280A203</b>	

**27-62-21**

WIRING DIAGRAMS  
27-62-21



NOTES:

- 1 S1049 ON GROUND SPOILER INTERLOCK VALVE IN RIGHT MAIN WHEEL WELL
- 2 A GROUND ON ANY INPUT EQUALS A LOGIC "TRUE"

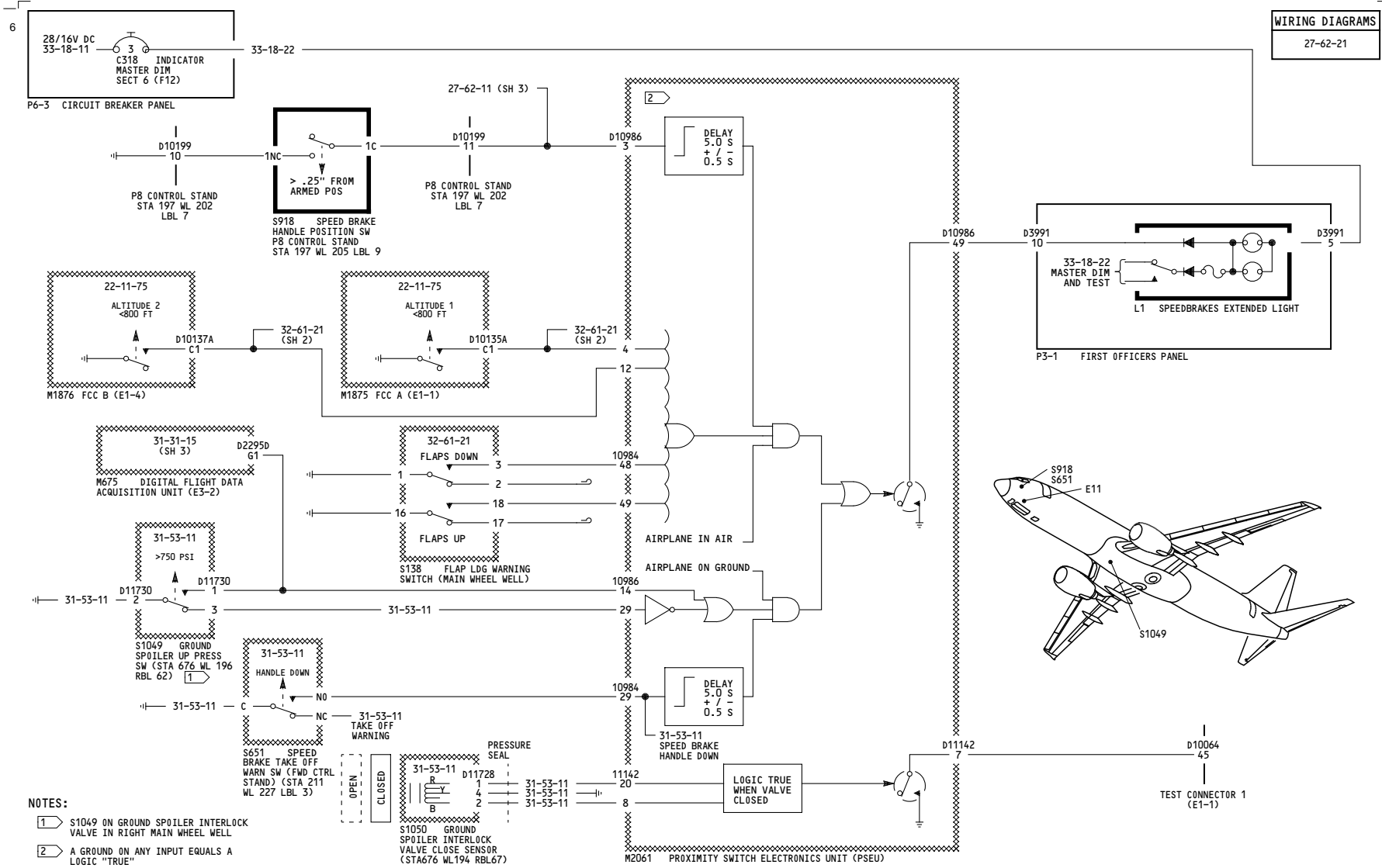
YC031-YC050, YM643-YM651

**SPEEDBRAKE DEPLOYED INDICATION**

D280A203

**27-62-21**

WIRING DIAGRAMS  
27-62-21

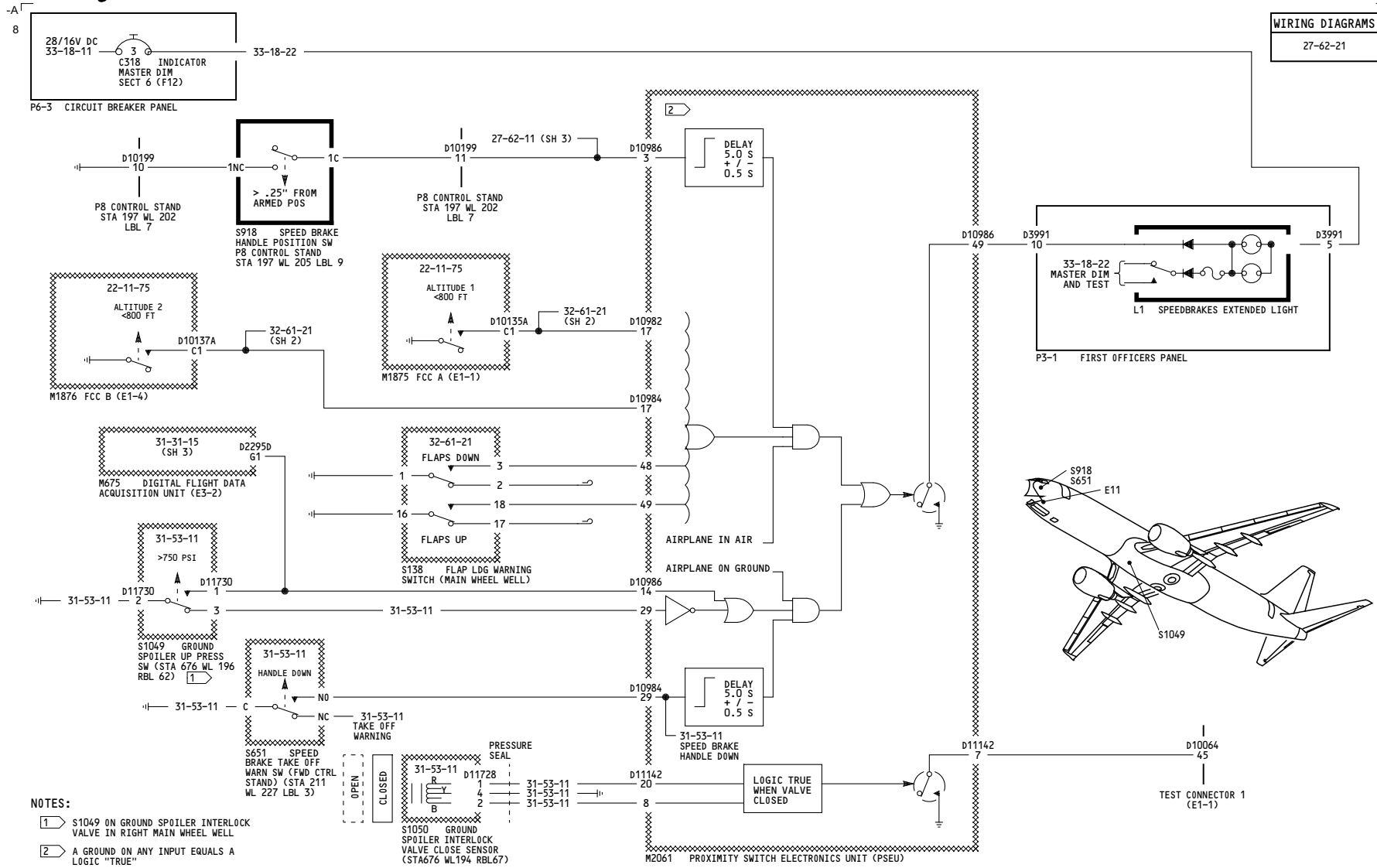


- NOTES:
- 1 S1049 ON GROUND SPOILER INTERLOCK VALVE IN RIGHT MAIN WHEEL WELL
  - 2 A GROUND ON ANY INPUT EQUALS A LOGIC "TRUE"

YK907-YK910, YK918	<b>SPEEDBRAKE DEPLOYED INDICATION</b>
D280A203	

**27-62-21**

WIRING DIAGRAMS  
27-62-21



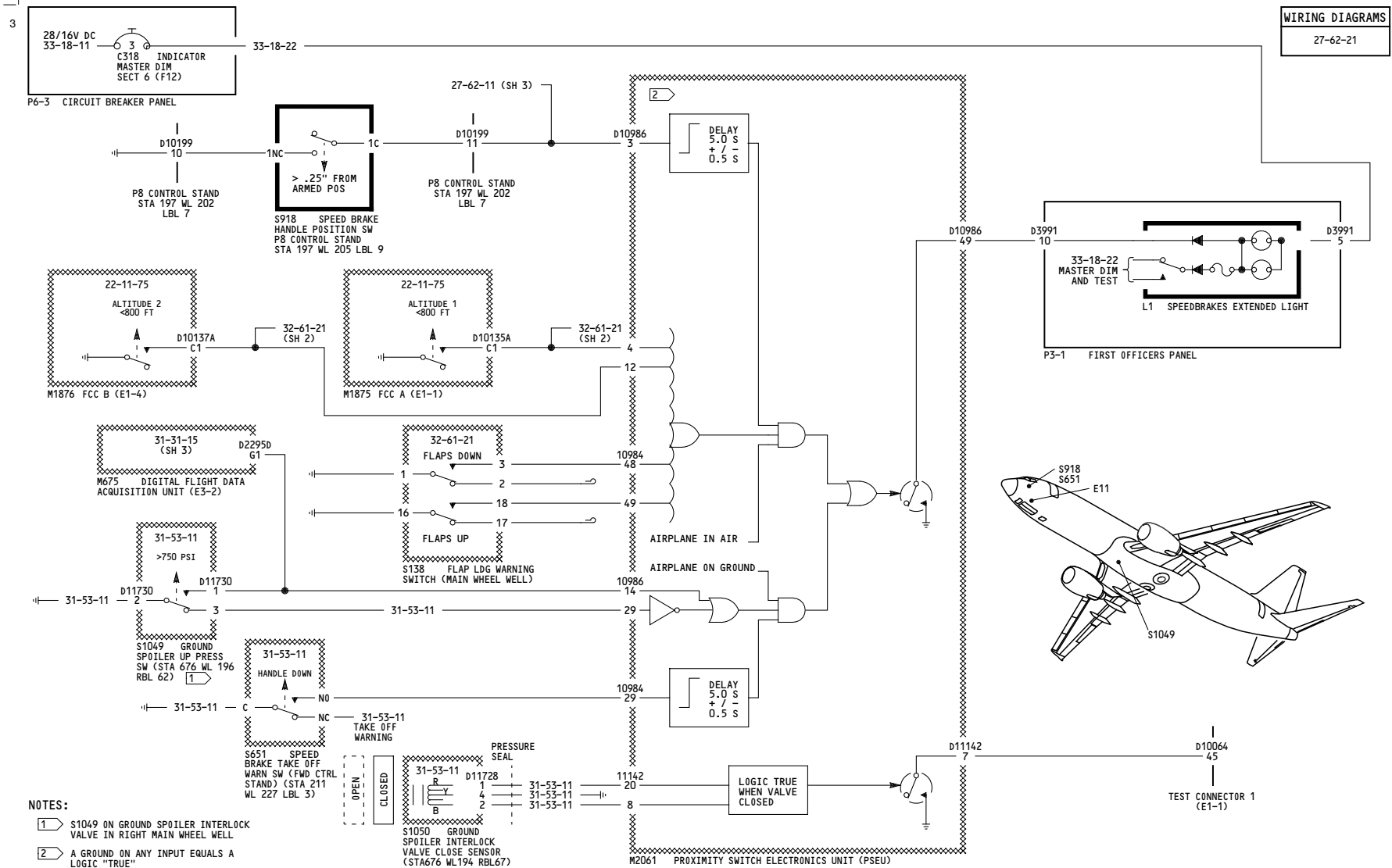
NOTES:

- 1 S1049 ON GROUND SPOILER INTERLOCK VALVE IN RIGHT MAIN WHEEL WELL
- 2 A GROUND ON ANY INPUT EQUALS A LOGIC "TRUE"

YK911-YK917, YK919-YL401	<b>SPEEDBRAKE DEPLOYED INDICATION</b>  D280A203
--------------------------	-------------------------------------------------------

27-62-21

WIRING DIAGRAMS  
27-62-21

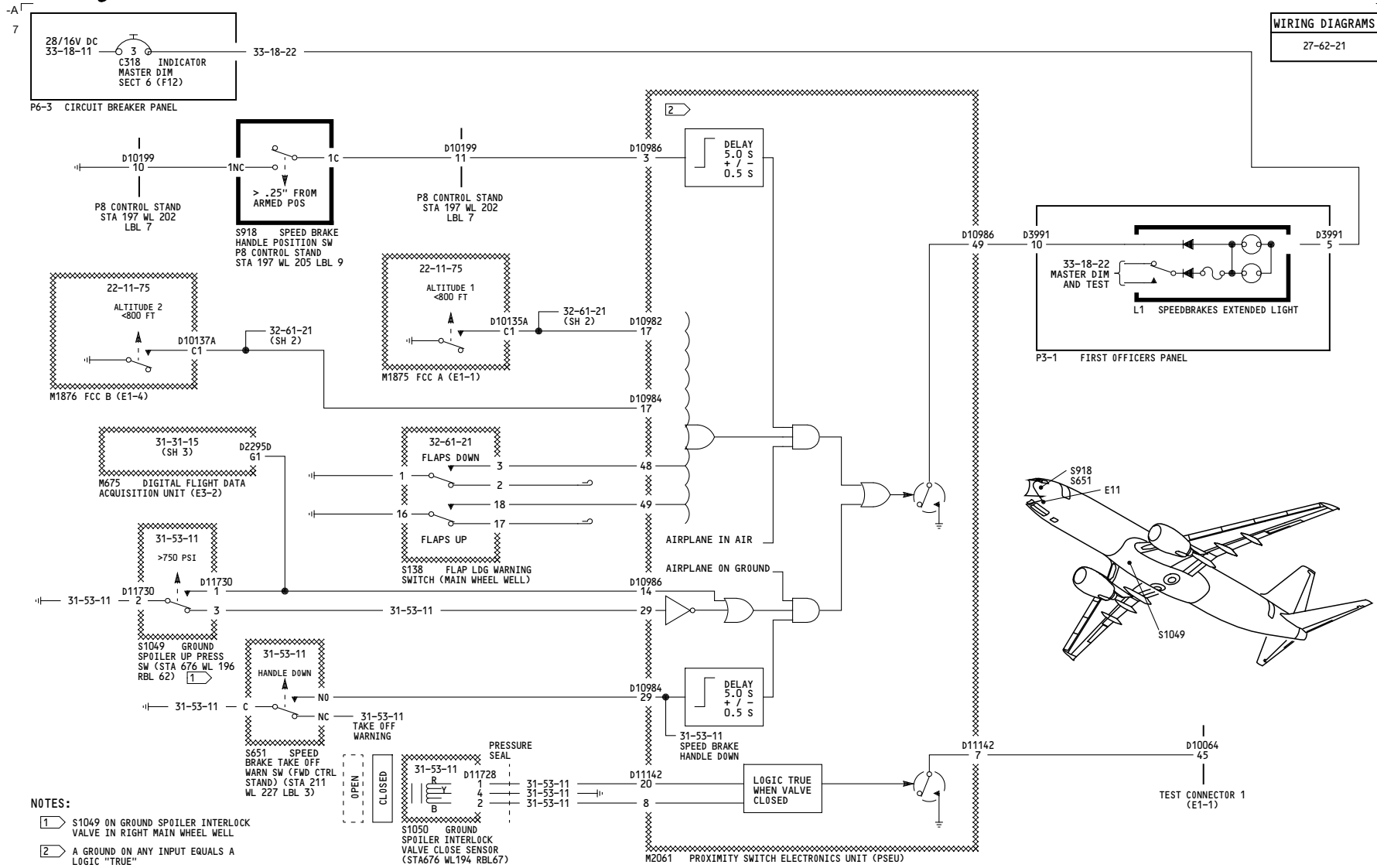


- NOTES:
- 1 S1049 ON GROUND SPOILER INTERLOCK VALVE IN RIGHT MAIN WHEEL WELL
  - 2 A GROUND ON ANY INPUT EQUALS A LOGIC "TRUE"

YL421-YL430	<b>SPEEDBRAKE DEPLOYED INDICATION</b>
D280A203	

**27-62-21**

WIRING DIAGRAMS  
27-62-21



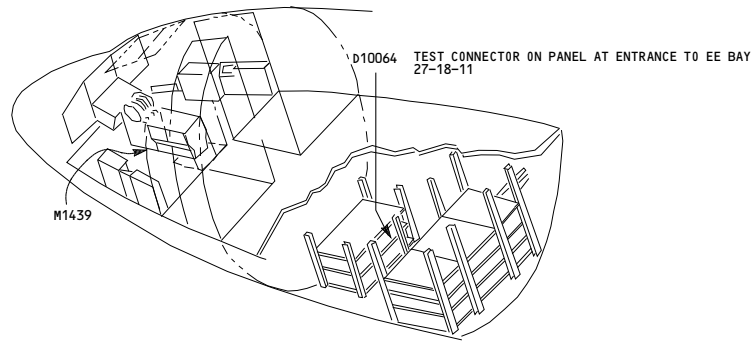
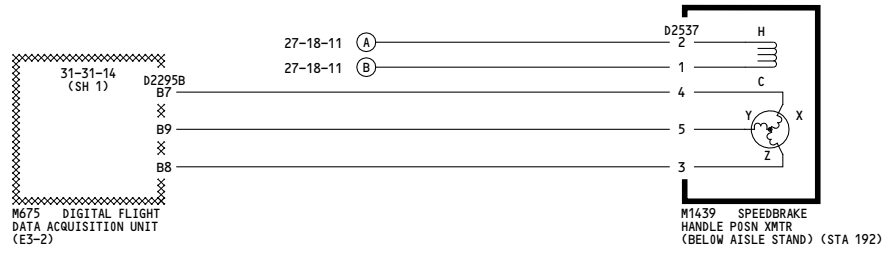
**NOTES:**

- 1 S1049 ON GROUND SPOILER INTERLOCK VALVE IN RIGHT MAIN WHEEL WELL
- 2 A GROUND ON ANY INPUT EQUALS A LOGIC "TRUE"

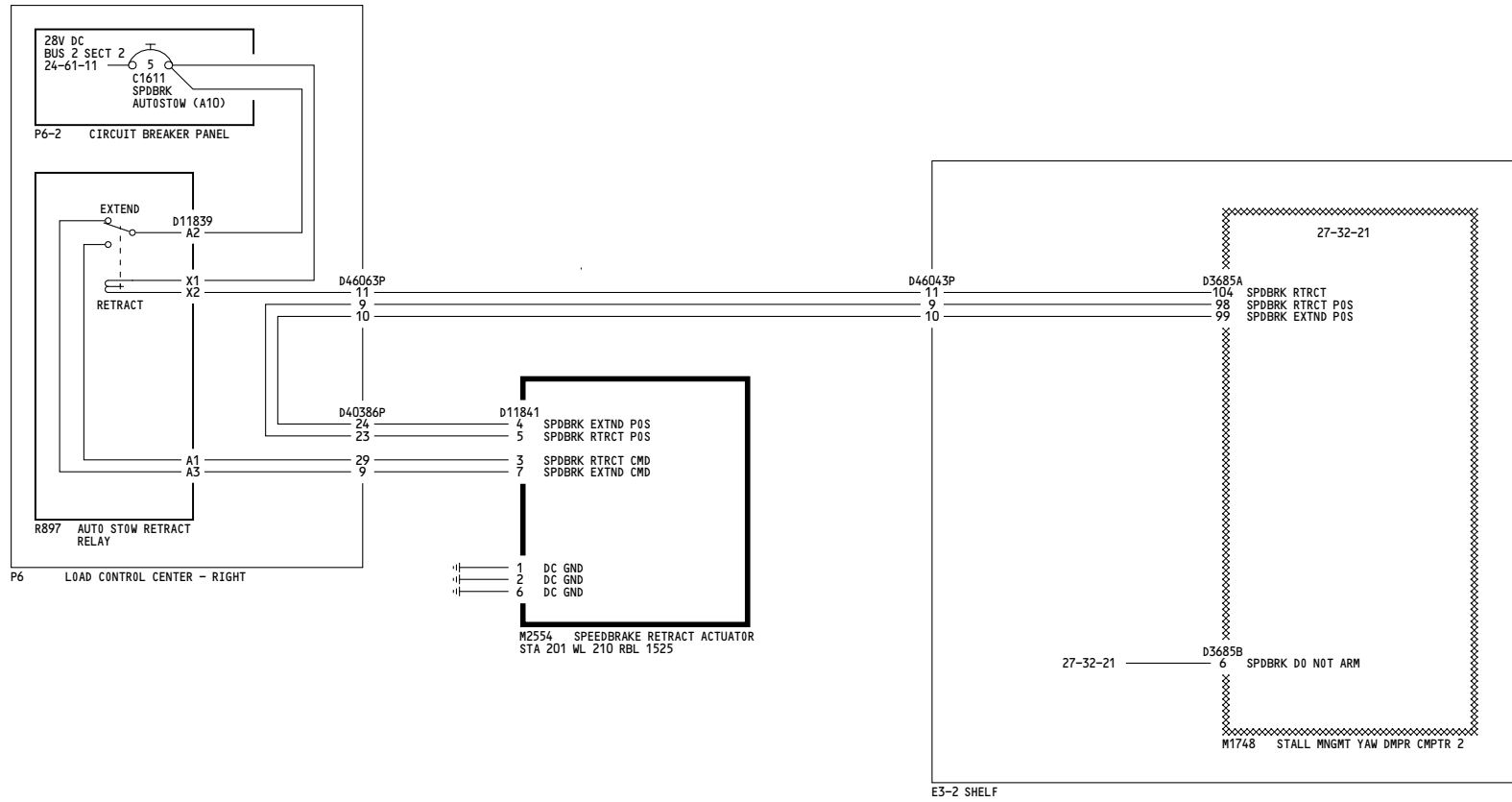
YM652-YM670	<b>SPEEDBRAKE DEPLOYED INDICATION</b>
D280A203	

**27-62-21**

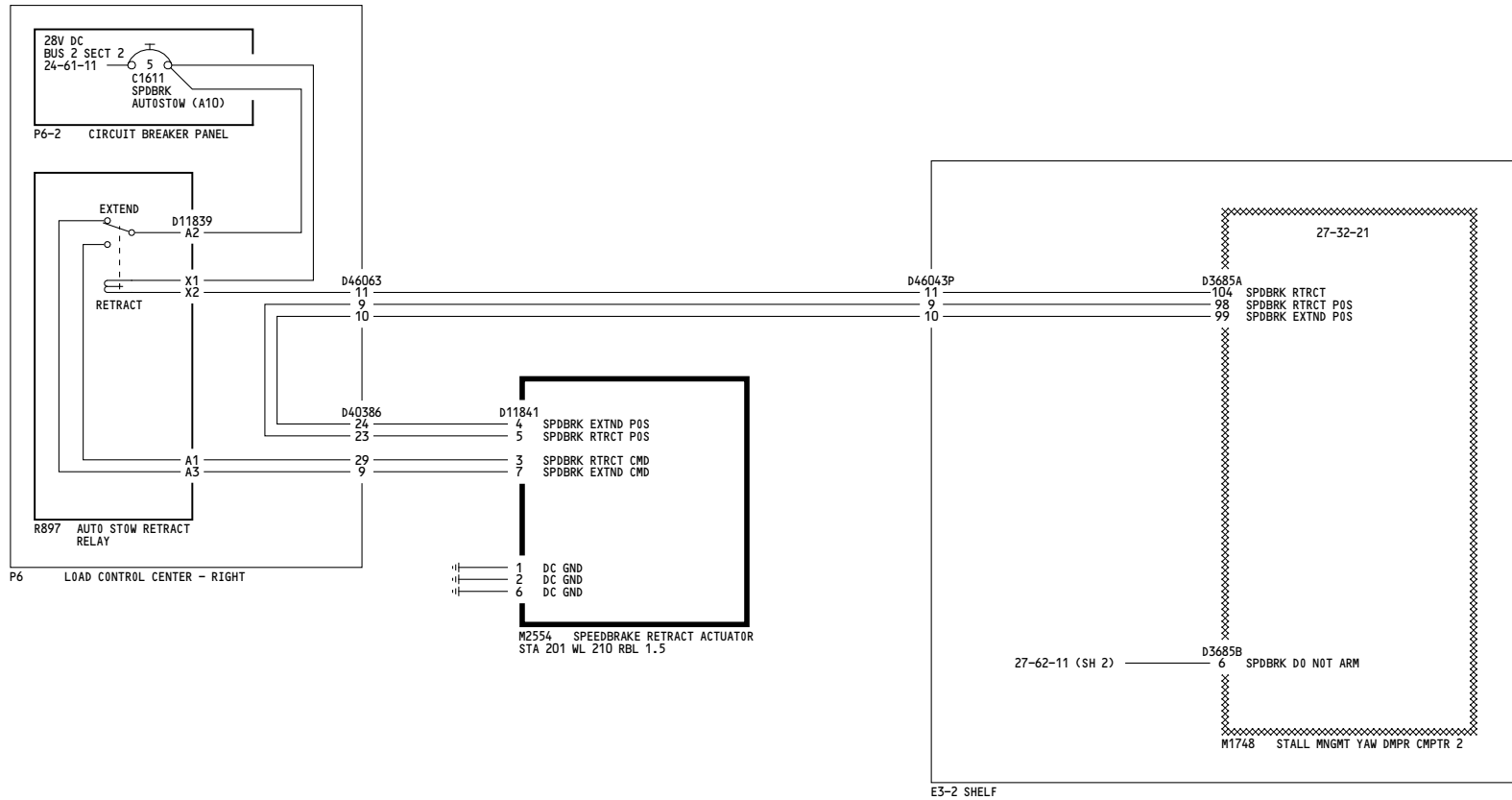




ALL	<p><b>SPEEDBRAKE HANDLE POSITION INDICATION</b></p> <p>D280A203</p>
-----	---------------------------------------------------------------------



YC001-YC050	<b>SPEEDBRAKE AUTOSTOW</b>
	D280A203



YC001-YC010, YC012-YC030	<b>SPEEDBRAKE AUTOSTOW</b>
	D280A203

Incorporates  
PD 0802664

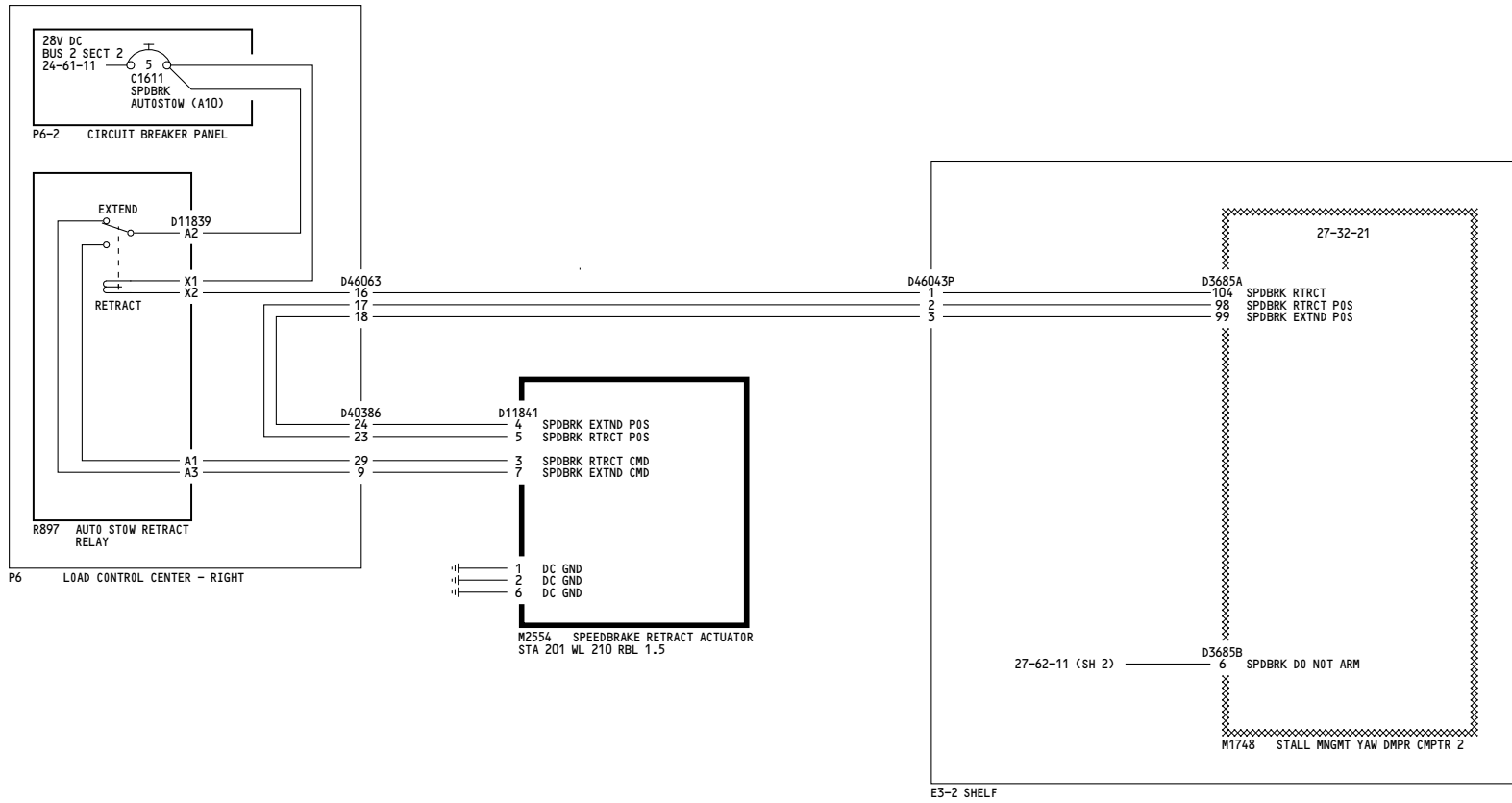
**27-62-41**

Page 101.1

May 13/2008

-C  
2

WIRING DIAGRAMS  
27-62-41



YM643-YM670	<p align="center"><b>SPEEDBRAKE AUTOSTOW</b></p> <p align="center">D280A203</p>
-------------	---------------------------------------------------------------------------------

**27-62-41**

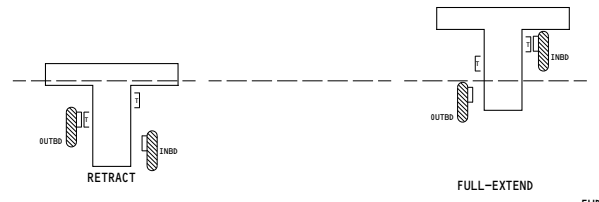
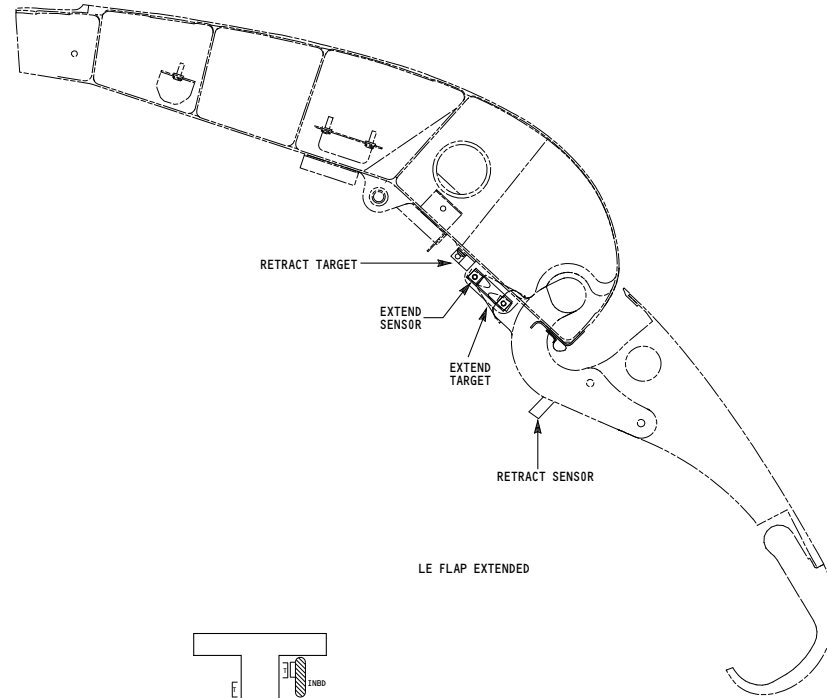
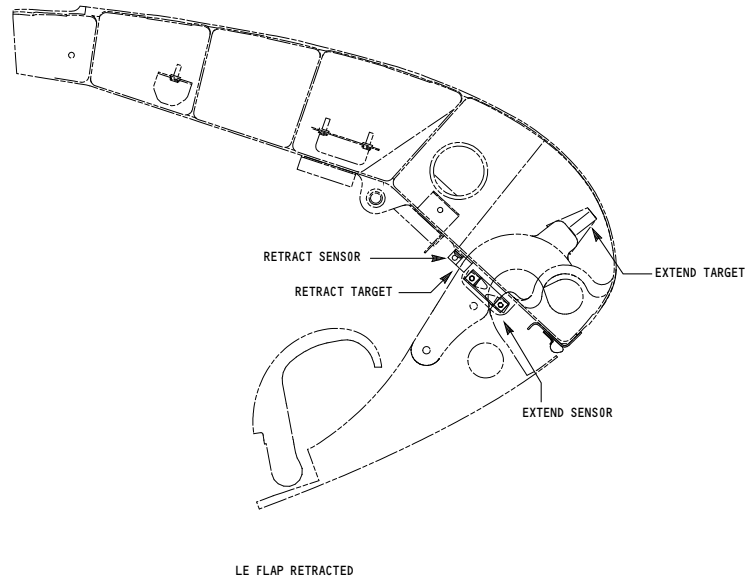
Page 102

May 13/2008

THIS PAGE INTENTIONALLY LEFT BLANK



-F  
1



SNSR	RETRACT	FULL-EXTEND	IN-TRANSIT
OUTBD	NEAR	FAR	FAR
INBD	FAR	NEAR	FAR

LE FLAP INDICATION PROXIMITY SENSOR/TARGET ARRANGEMENT FOR FLAPS 1 & 2

NOTE:  
NORMAL LEADING EDGE DEVICES OPERATION IS CONTROLLED BY THE TRAILING EDGE FLAP POSITION.

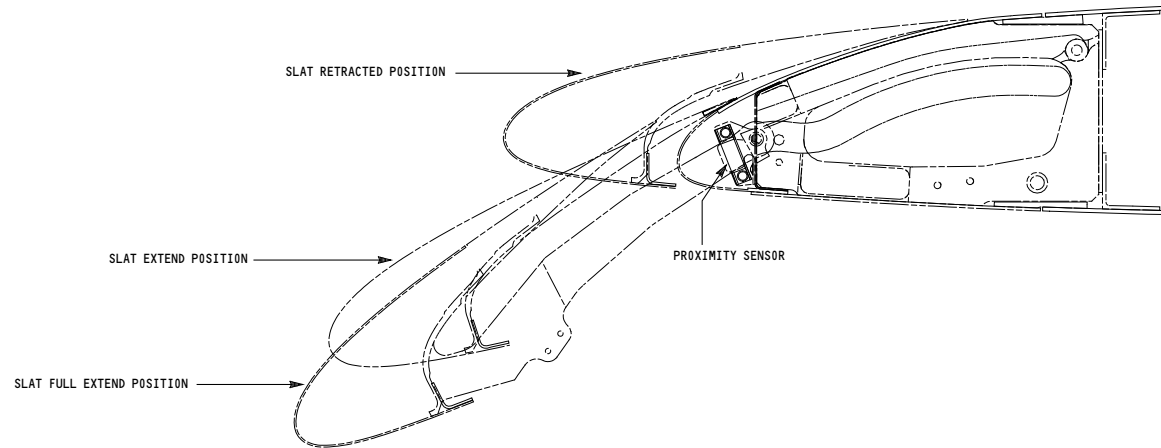
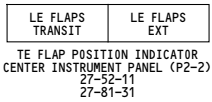
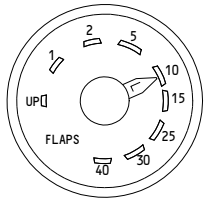
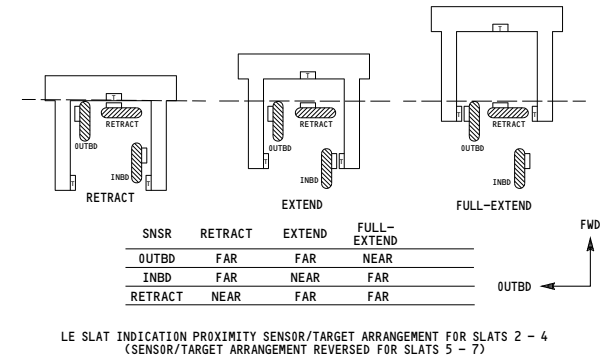
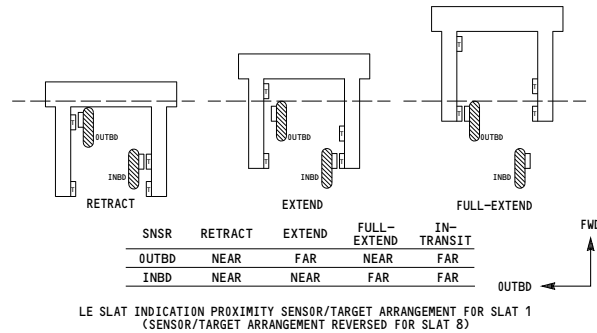
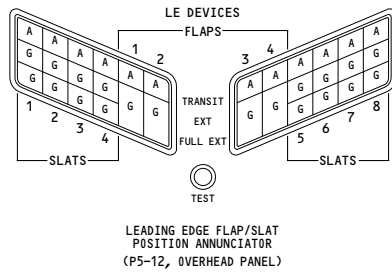
A. AS THE TRAILING FLAPS START TO RETRACT; THE LEADING EDGE FLAPS WILL EXTEND

ALL	<p><b>LEADING EDGE DRIVE AND INDICATION</b></p> <p>D280A203</p>
-----	-----------------------------------------------------------------

**27-80-01**

Page 101  
Sheet 2  
Feb 09/2009

-E-  
1



**NOTE:**  
NORMAL LEADING EDGE DEVICES OPERATION IS  
CONTROLLED BY THE TRAILING EDGE FLAP POSITION.

A. AS THE TRAILING EDGE FLAPS REACH 17% OF STROKE TO THE RETRACT POSITION:  
THE LEADING EDGE FLAPS WILL FULLY EXTEND  
THE LEADING EDGE SLATS WILL EXTEND

B. AS THE TRAILING EDGE FLAPS LEAVE THE "5" POSITION:  
THE LEADING EDGE SLATS WILL GO TO THE FULL EXTEND POSITION.

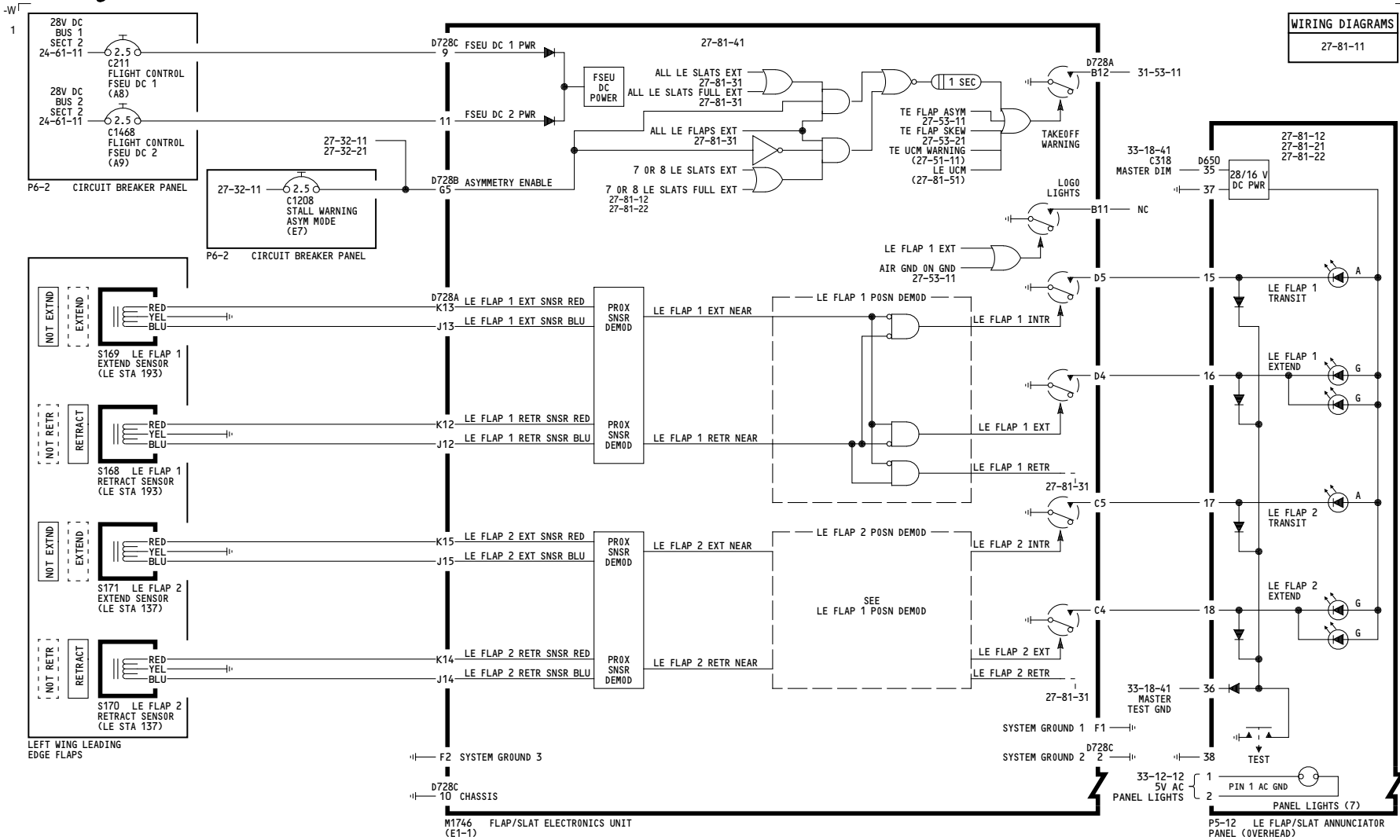
THIS SEQUENCE IS REVERSED UPON RETRACTION.

ALL	<p><b>LEADING EDGE DRIVE AND INDICATION</b></p> <p>D280A203</p>
-----	---------------------------------------------------------------------

27-80-01

Page 101  
Sheet 3  
Feb 09/2009





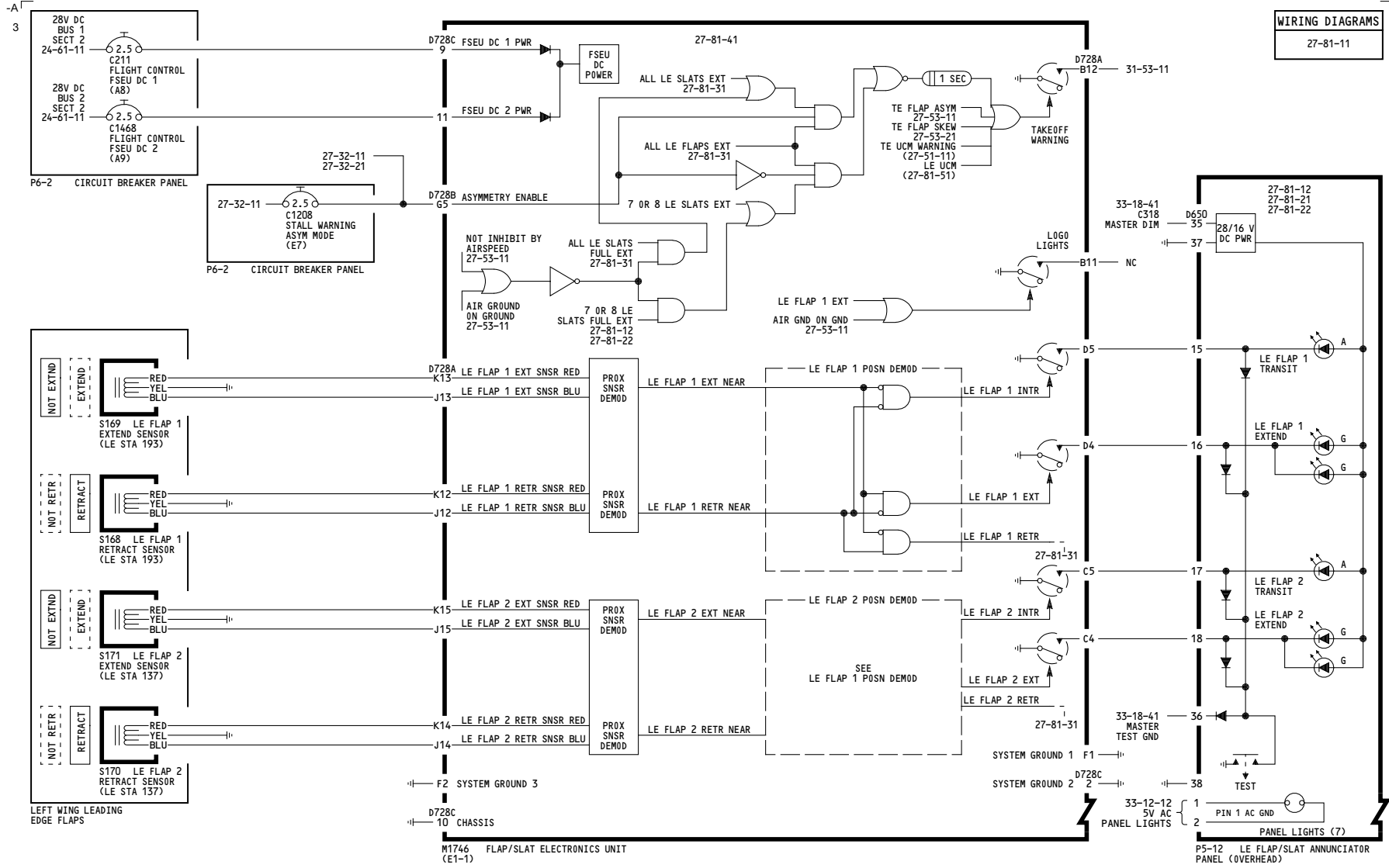
YC001-YK910, YK918, YL401, YM643-YM670

**LEFT LEADING EDGE FLAP POSITION INDICATION**

D280A203

**27-81-11**

WIRING DIAGRAMS  
27-81-11



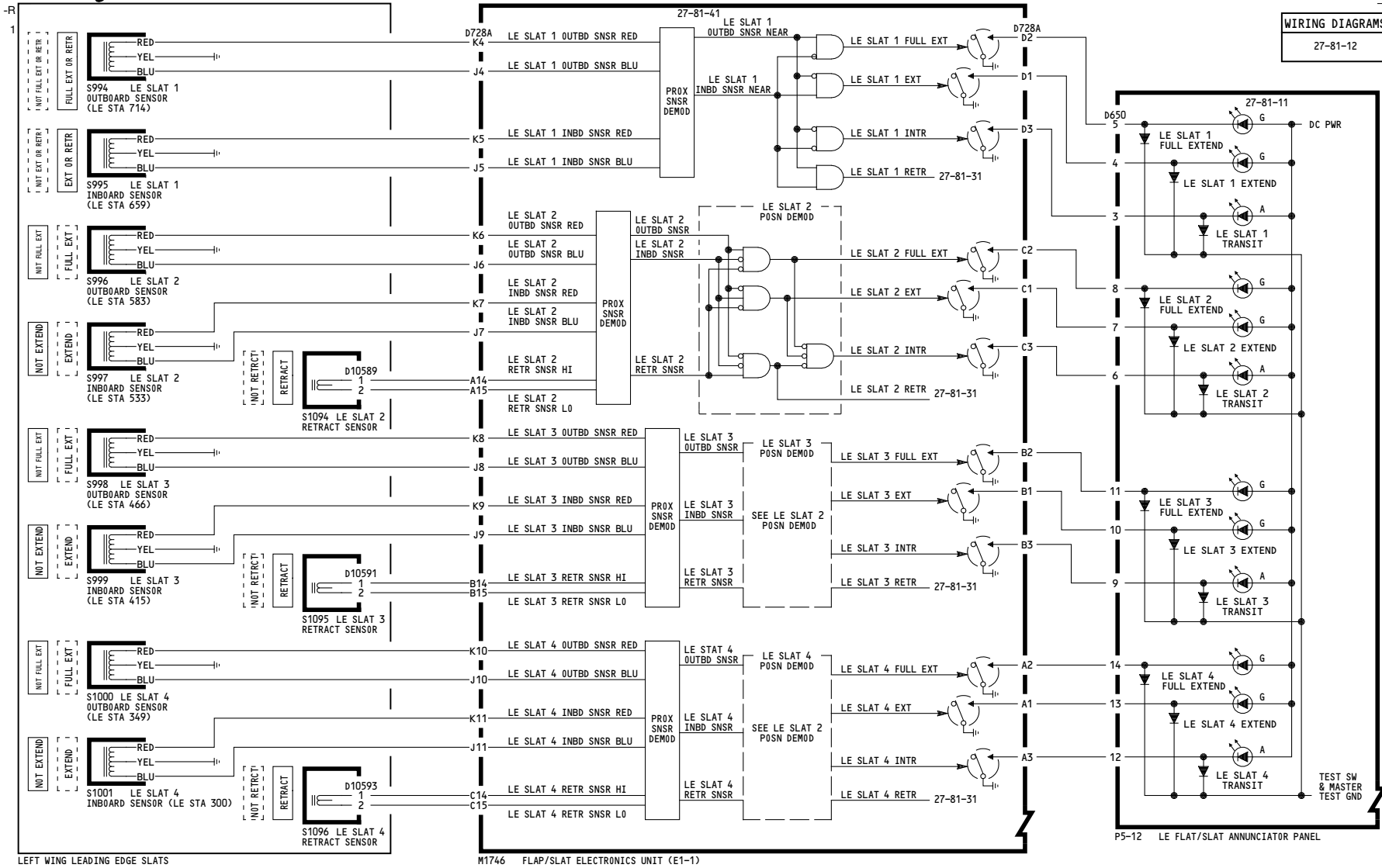
YK911-YK917, YK919-YK920, YL421-YL430

**LEFT LEADING EDGE FLAP POSITION INDICATION**

**27-81-11**

D280A203

WIRING DIAGRAMS  
27-81-12

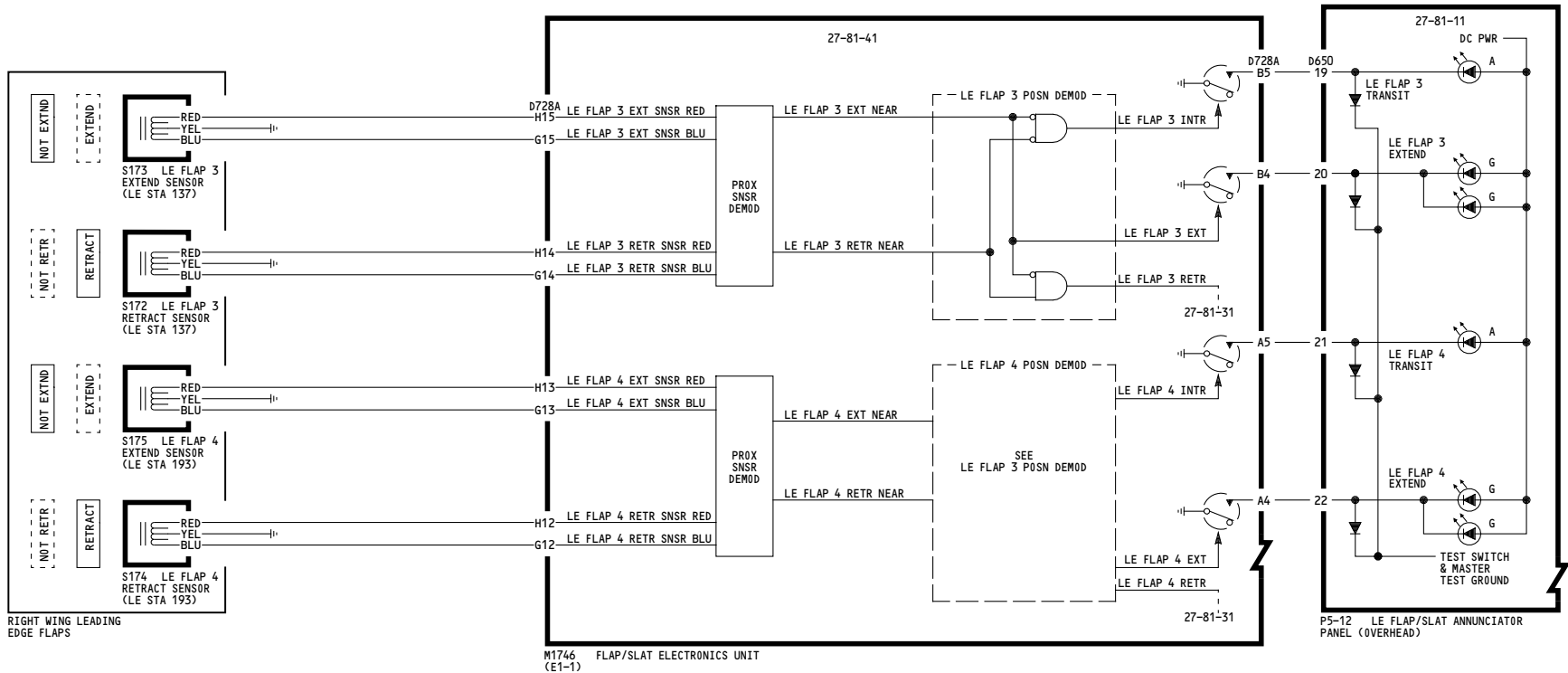


ALL

**LEFT LEADING EDGE SLAT POSITION INDICATION**

D280A203

**27-81-12**

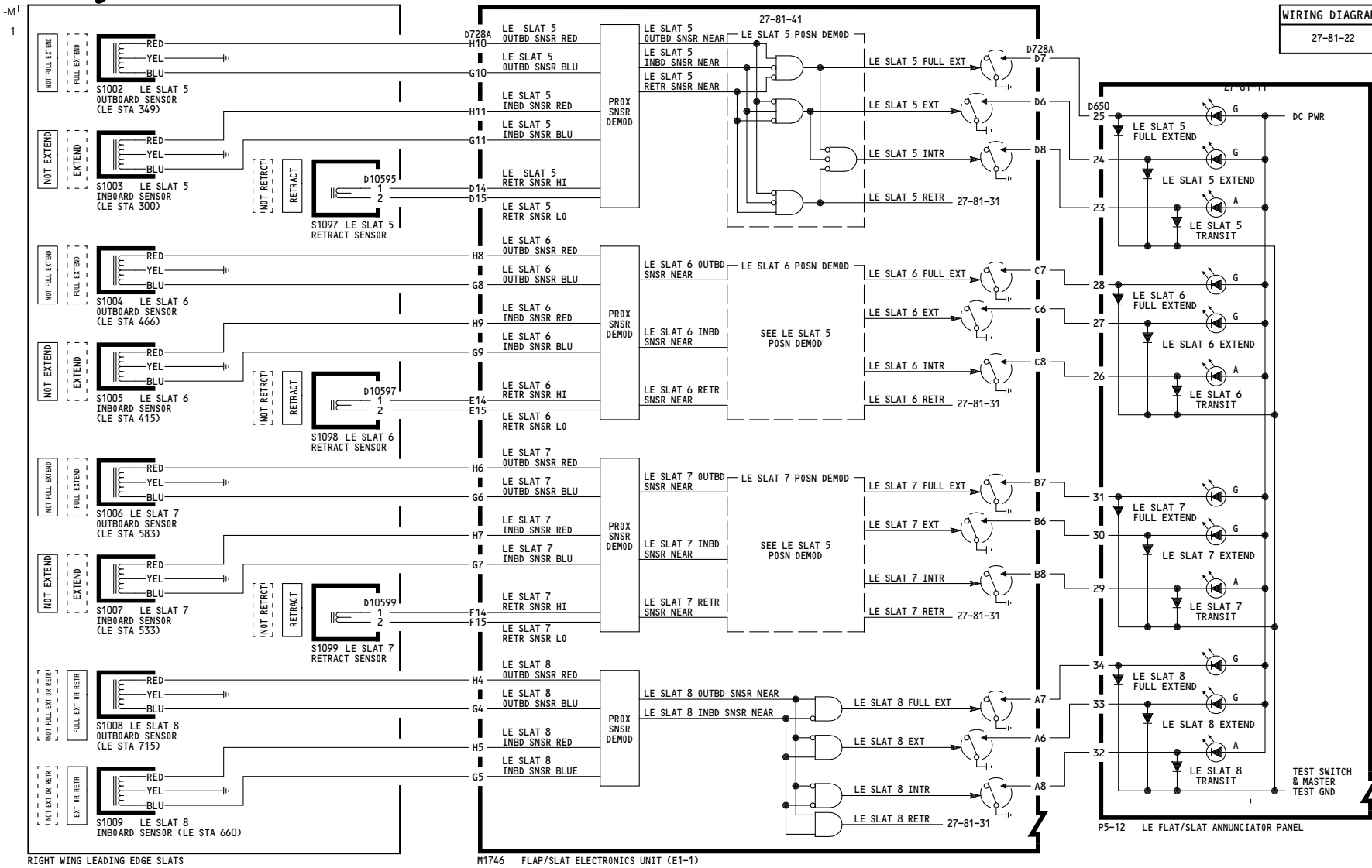


ALL	<b>RIGHT LEADING EDGE FLAP POSITION INDICATION</b>
	D280A203

**27-81-21**

Page 101

Feb 09/2009



ALL

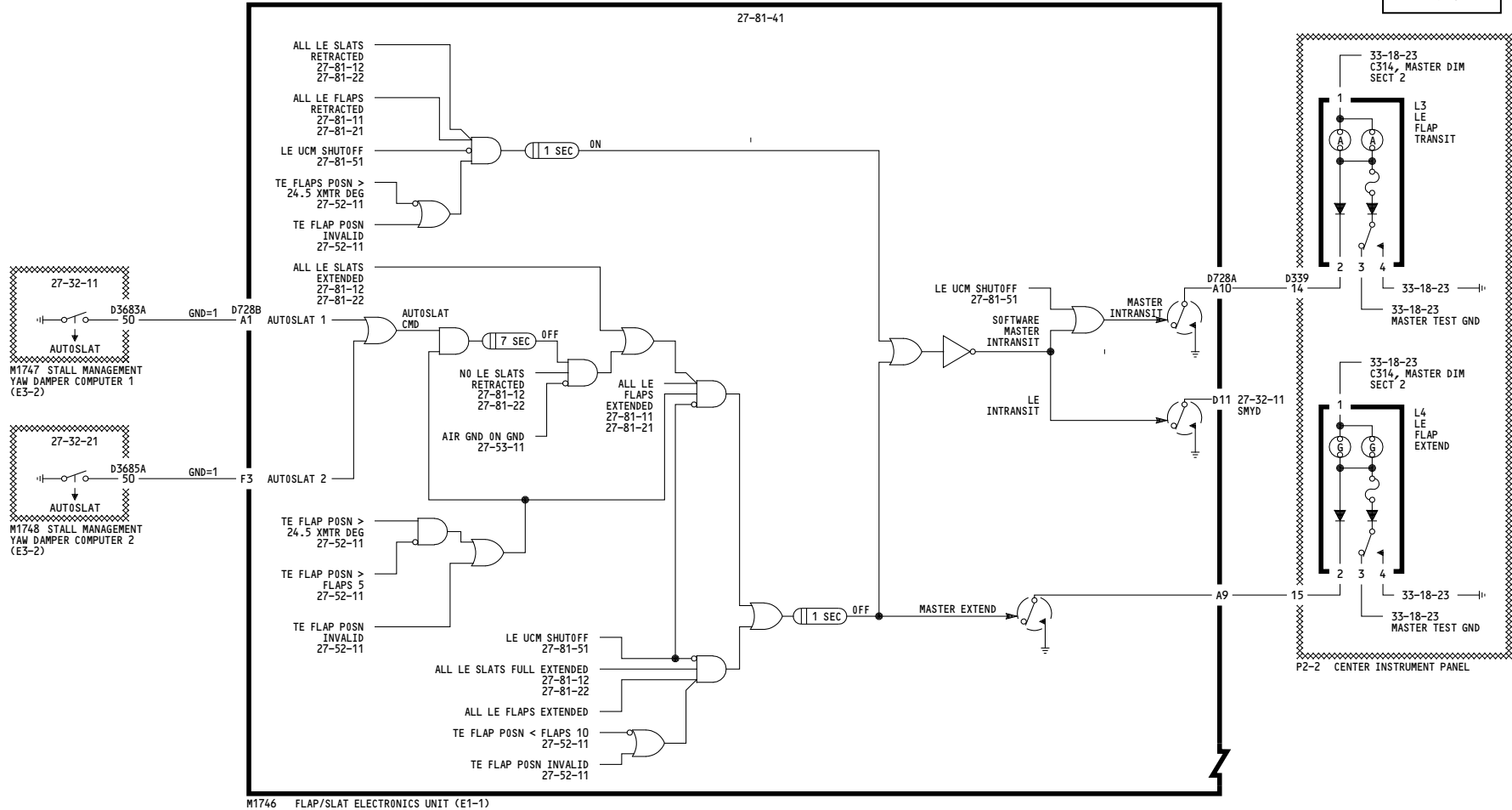
**RIGHT LEADING EDGE SLAT POSITION INDICATION**

D280A203

**27-81-22**

AL  
1

WIRING DIAGRAMS  
27-81-31



YC001-YK906, YM643-YM670

**LEADING EDGE FLAPS AND SLATS MASTER INDICATION**

D280A203

**27-81-31**

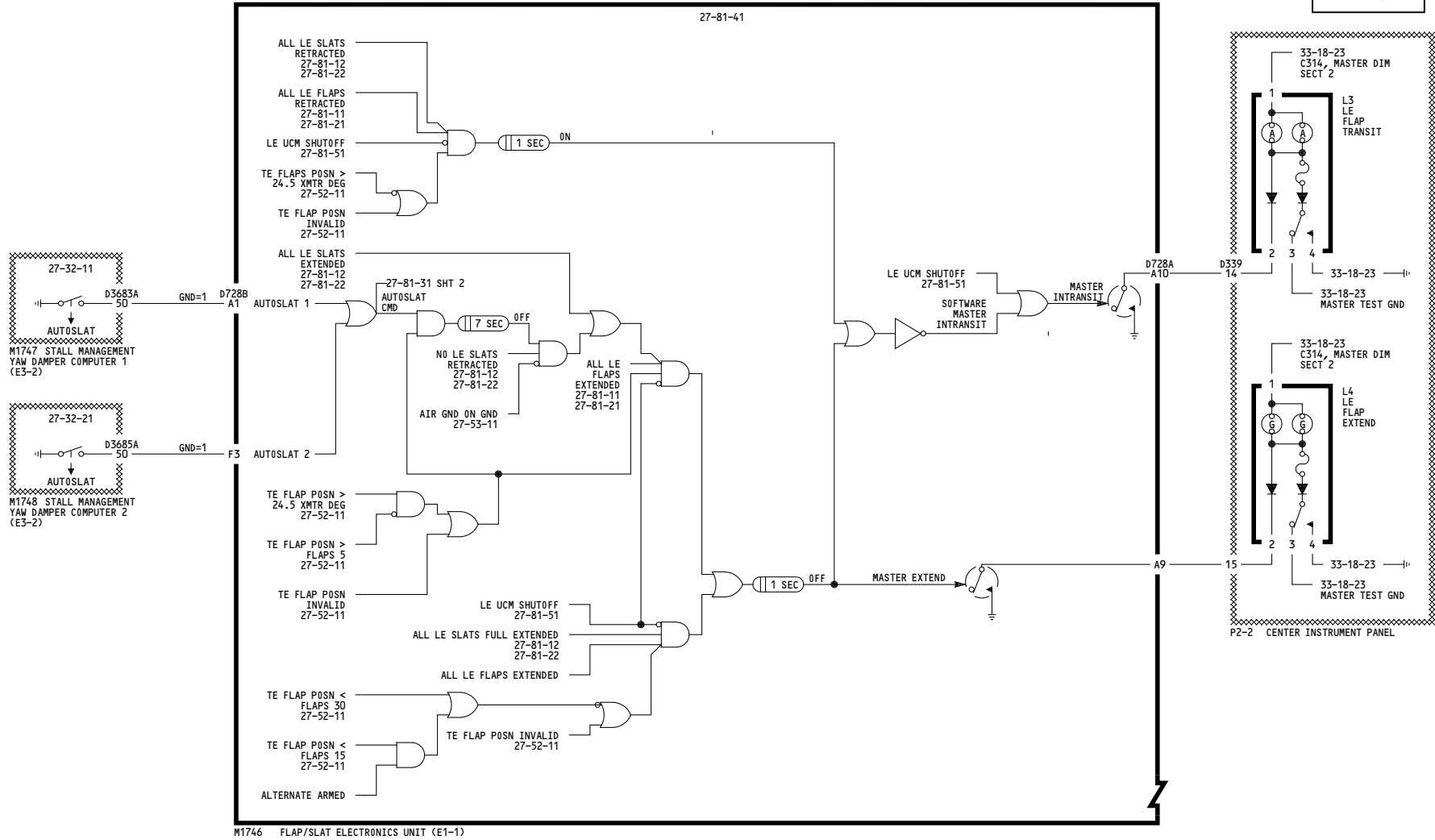
Page 101

Jan 14/2008

THIS PAGE INTENTIONALLY LEFT BLANK

-A  
3

WIRING DIAGRAMS  
27-81-31



YK907-YL430

**LEADING EDGE FLAPS AND SLATS MASTER INDICATION**

D280A203

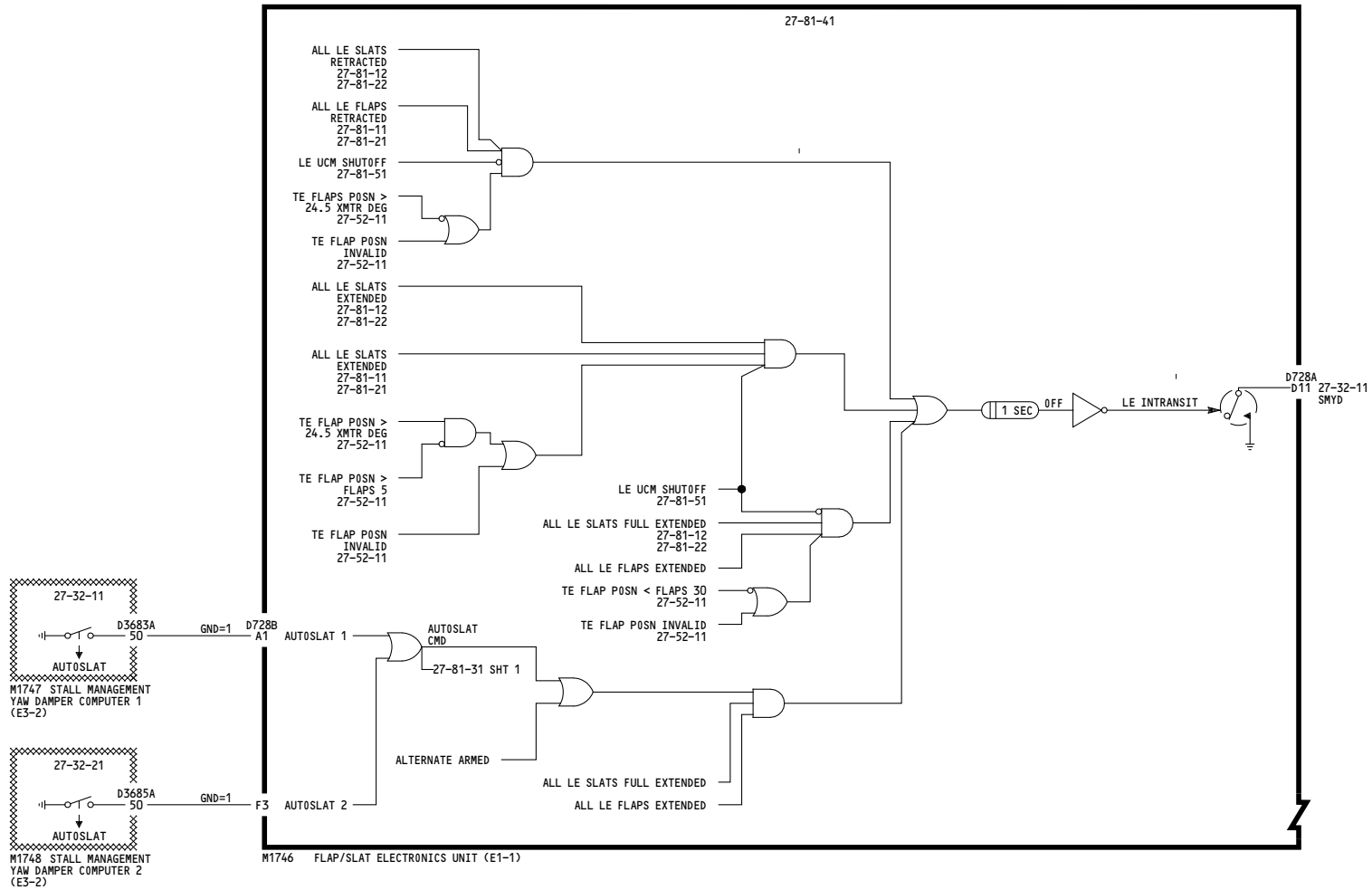
**27-81-31**

Page 102  
 Sheet 1  
 Feb 09/2009



-A  
1

WIRING DIAGRAMS  
27-81-31



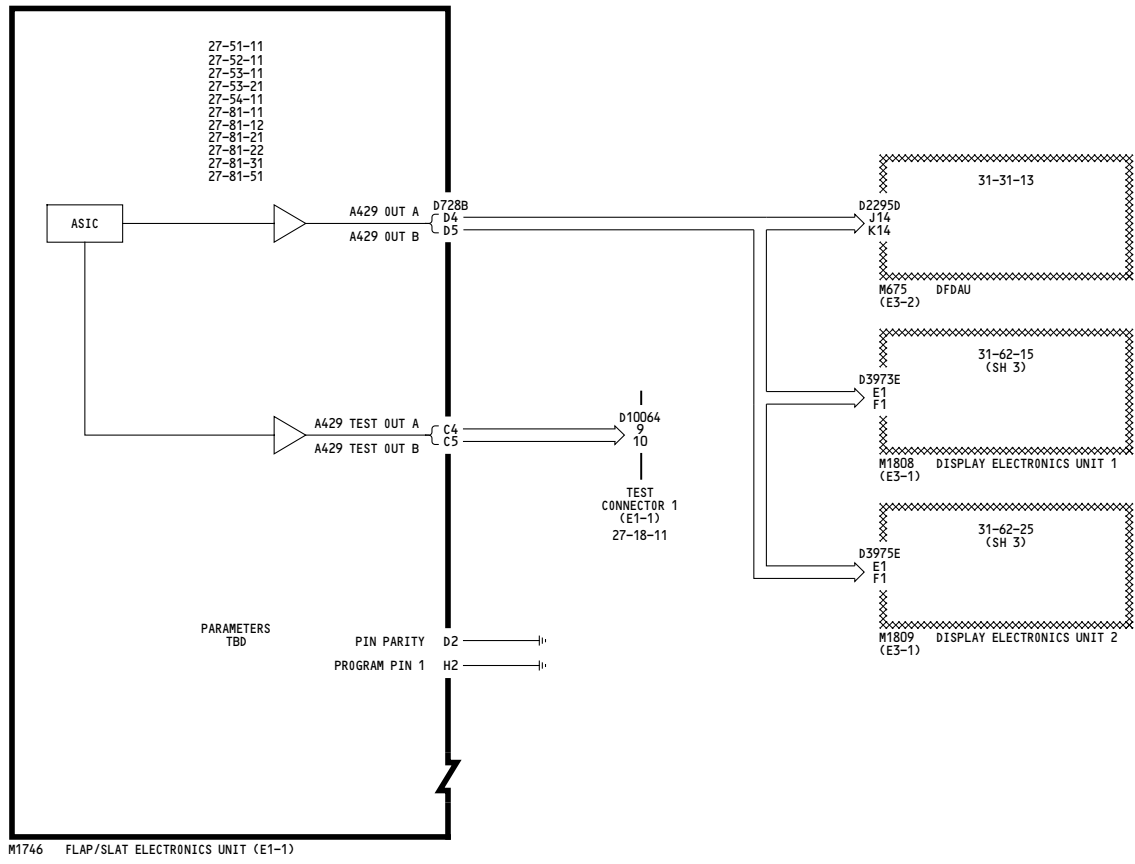
YK907-YL430

**LEADING EDGE FLAPS AND SLATS MASTER INDICATION**

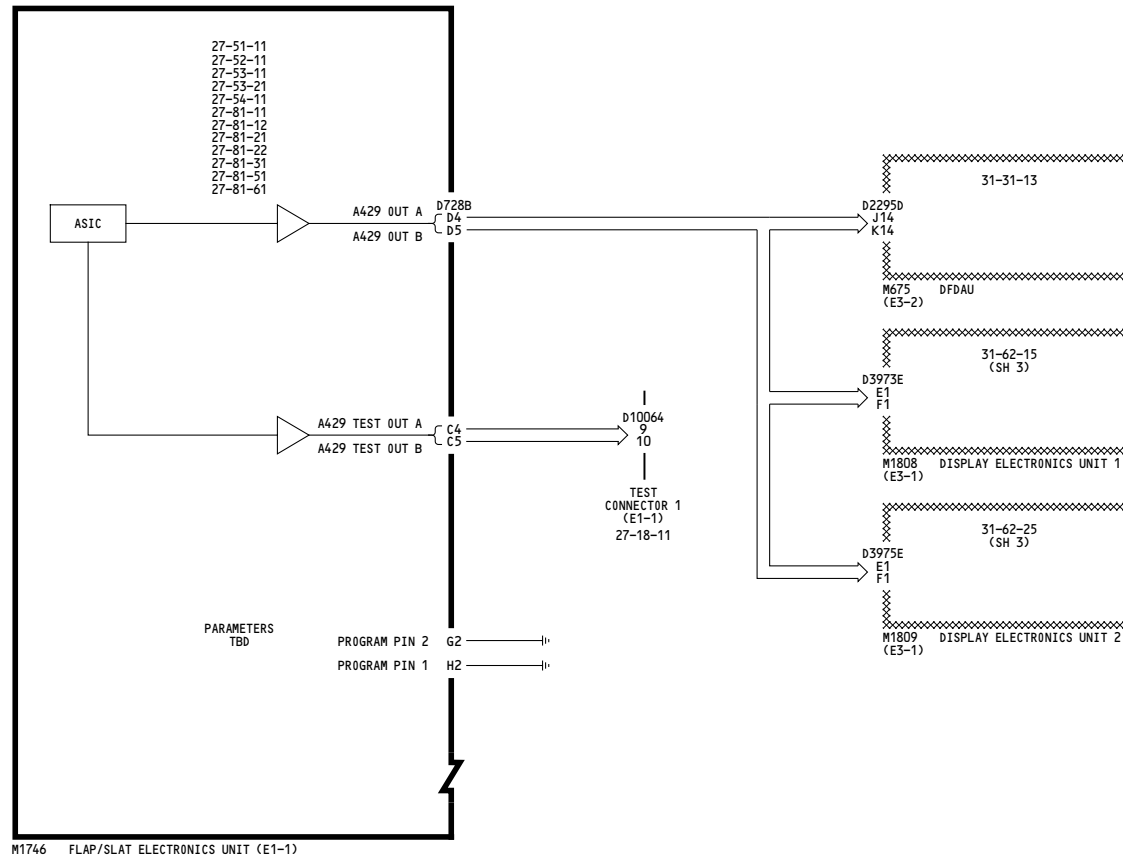
D280A203

**27-81-31**

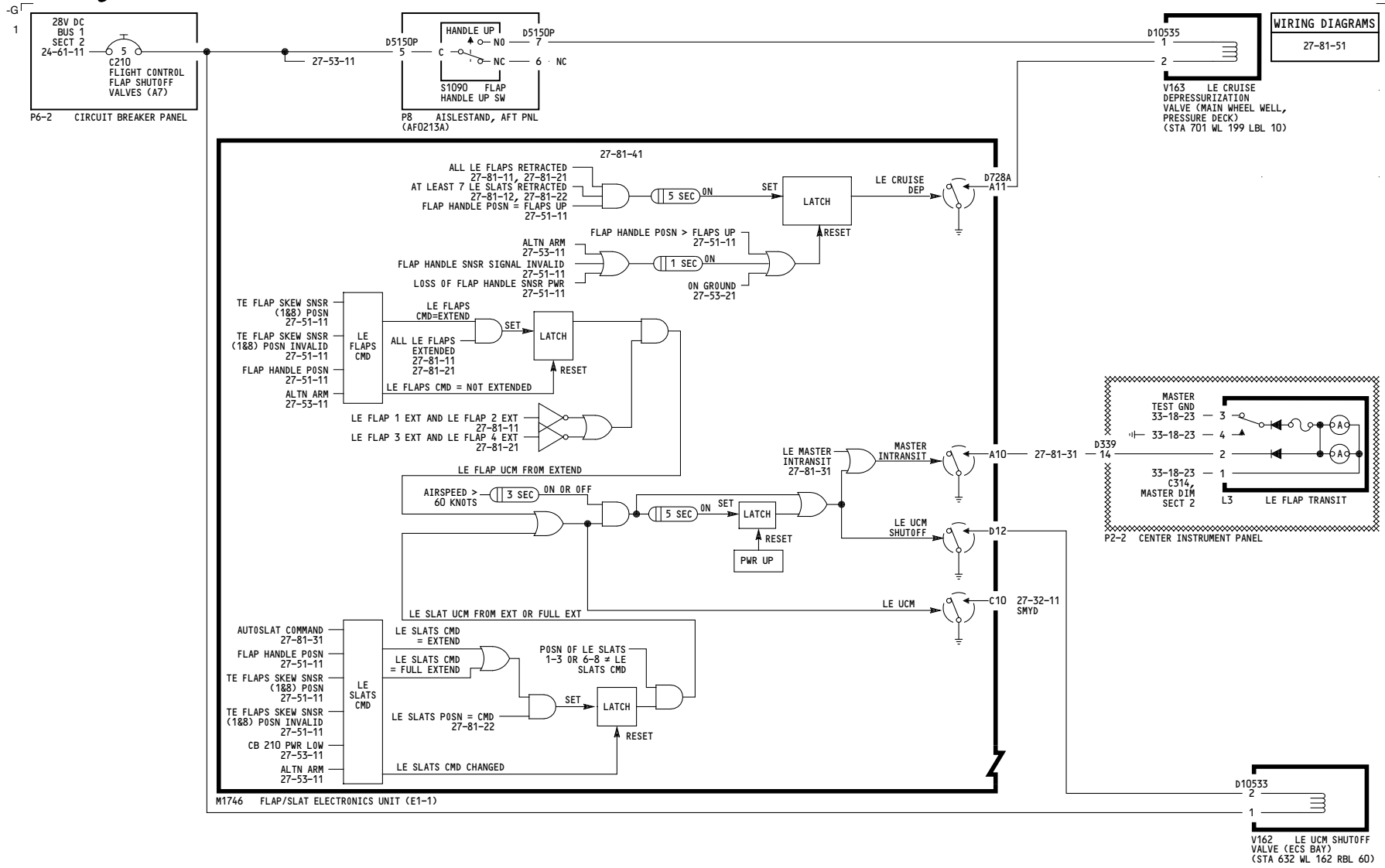
Page 102  
Sheet 2  
Feb 09/2009



<p>YC001-YK906, YM643-YM670</p>	<p><b>DFDAU AND TEST CONNECTOR INTERFACE</b></p> <p>D280A203</p>
---------------------------------	----------------------------------------------------------------------



YK907-YL430	<p align="center"><b>DFDAU AND TEST CONNECTOR INTERFACE</b></p> <p align="center">D280A203</p>
-------------	----------------------------------------------------------------------------------------------------



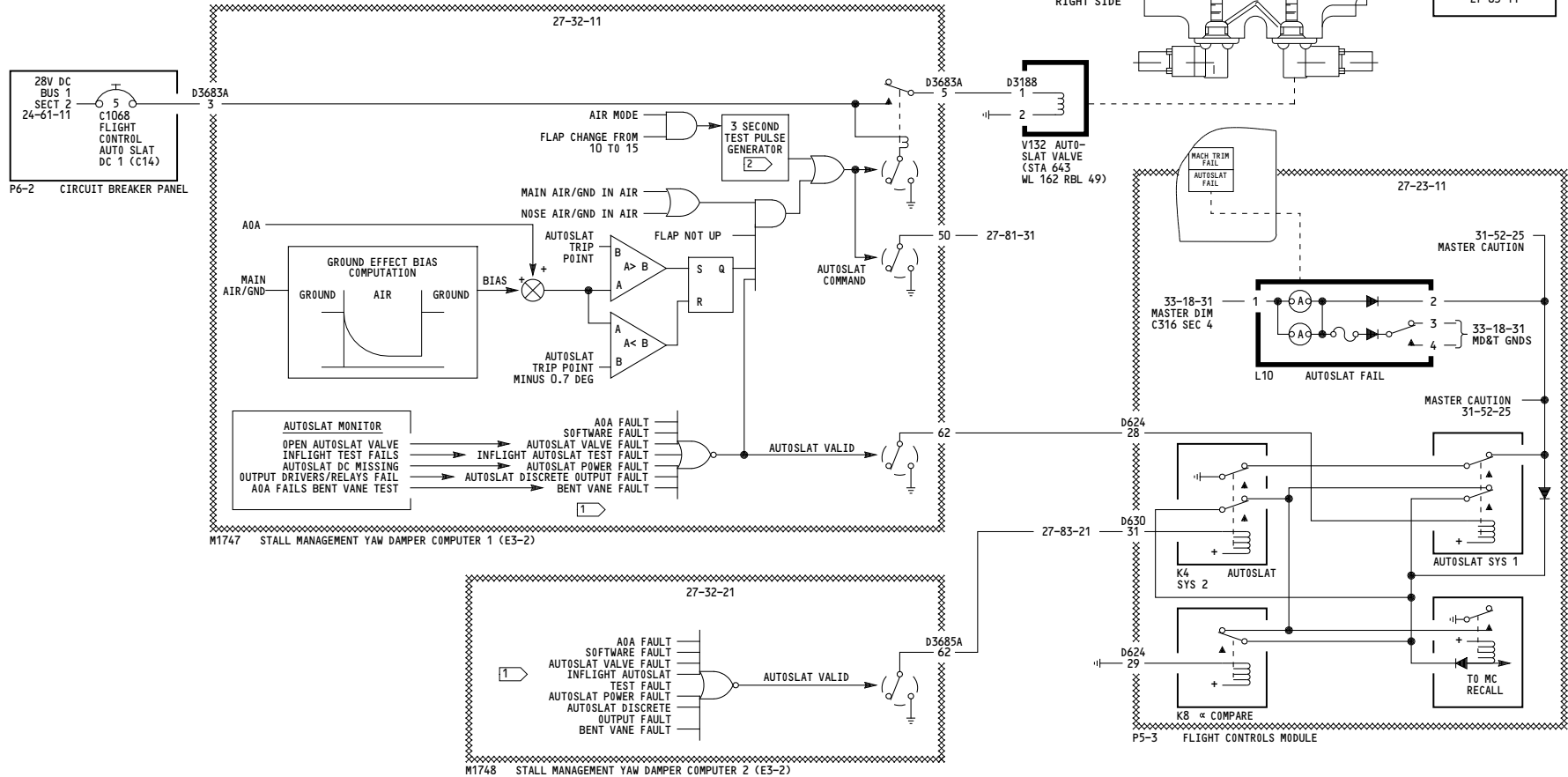
**WIRING DIAGRAMS**  
27-81-51

ALL	<b>LEADING EDGE UNCOMMANDED MOTION PROTECTION</b>
	D280A203

**27-81-51**

-G  
1

**WIRING DIAGRAMS**  
27-83-11



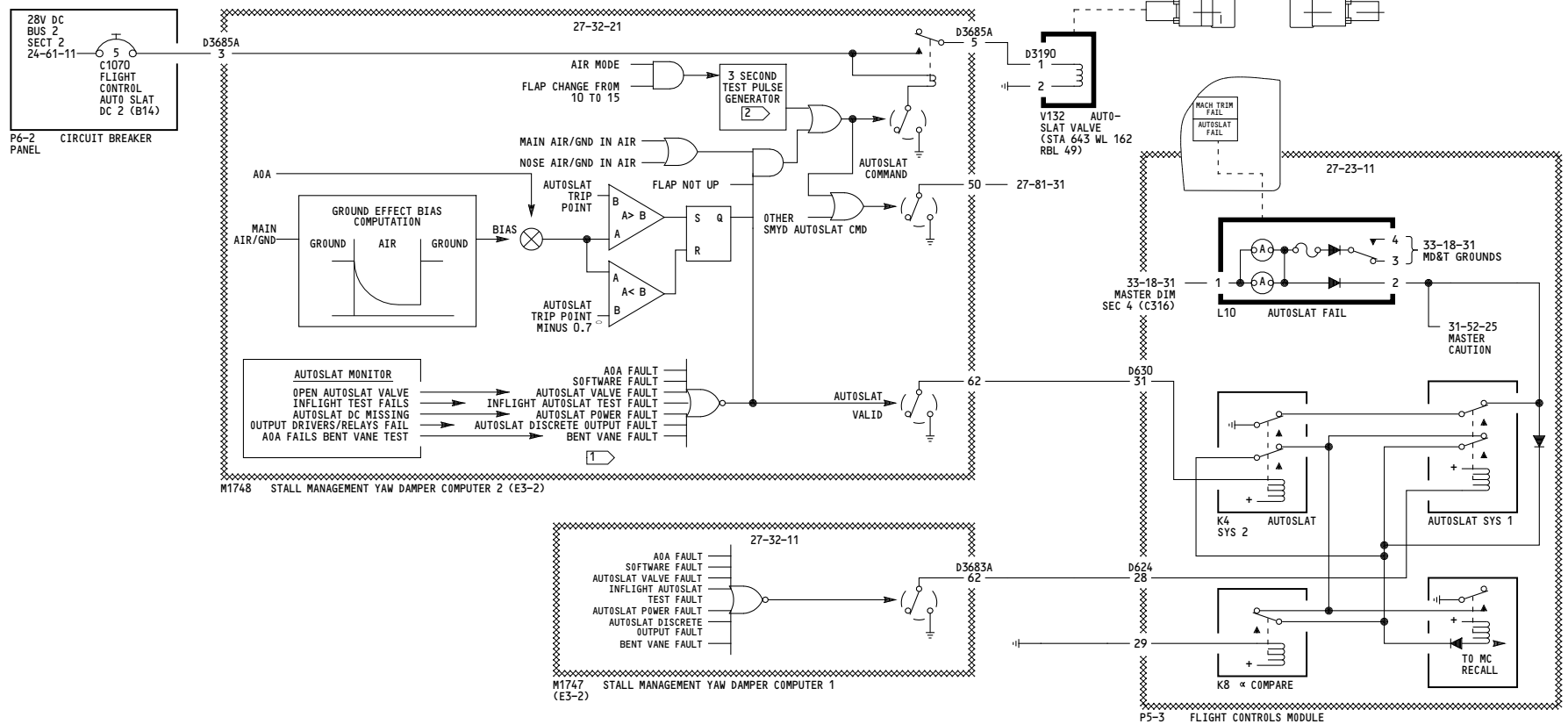
**NOTES:**

- 1 INFLIGHT AUTOSLAT TEST FAULT AND BENT VANE FAULT ARE LATCHED IN NVRAM. USE CLEAR AND RETEST MENU OF BITE TO CLEAR THE LATCHES.
- 2 INFLIGHT AUTOSLAT TEST PULSE. THIS TRIGGERS THE INFLIGHT TEST DURING WHICH AUTOSLAT DISCRETE OUTPUT CIRCUITRY IS CHECKED. FAILURE WILL SET "IN FLIGHT AUTOSLAT TEST FAULT."

ALL	<b>AUTOSLAT SYSTEM NO. 1</b>
	D280A203

1

**WIRING DIAGRAMS**  
27-83-21



- NOTES:**
- ① INFLIGHT AUTOSLAT TEST FAULT AND BENT VANE FAULT ARE LATCHED IN NVRAM. USE CLEAR AND RETEST MENU OF BITE TO CLEAR THE LATCHES.
  - ② INFLIGHT AUTOSLAT TEST PULSE THIS TRIGGERS THE INFLIGHT TEST DURING WHICH AUTOSLAT DISCRETE OUTPUT CIRCUITRY IS CHECKED. FAILURE WILL SET "INFLIGHT AUTOSLAT TEST FAULT."

ALL	<b>AUTOSLAT SYSTEM NO. 2</b>
D280A203	

**27-83-21**

Page 101

Feb 09/2009